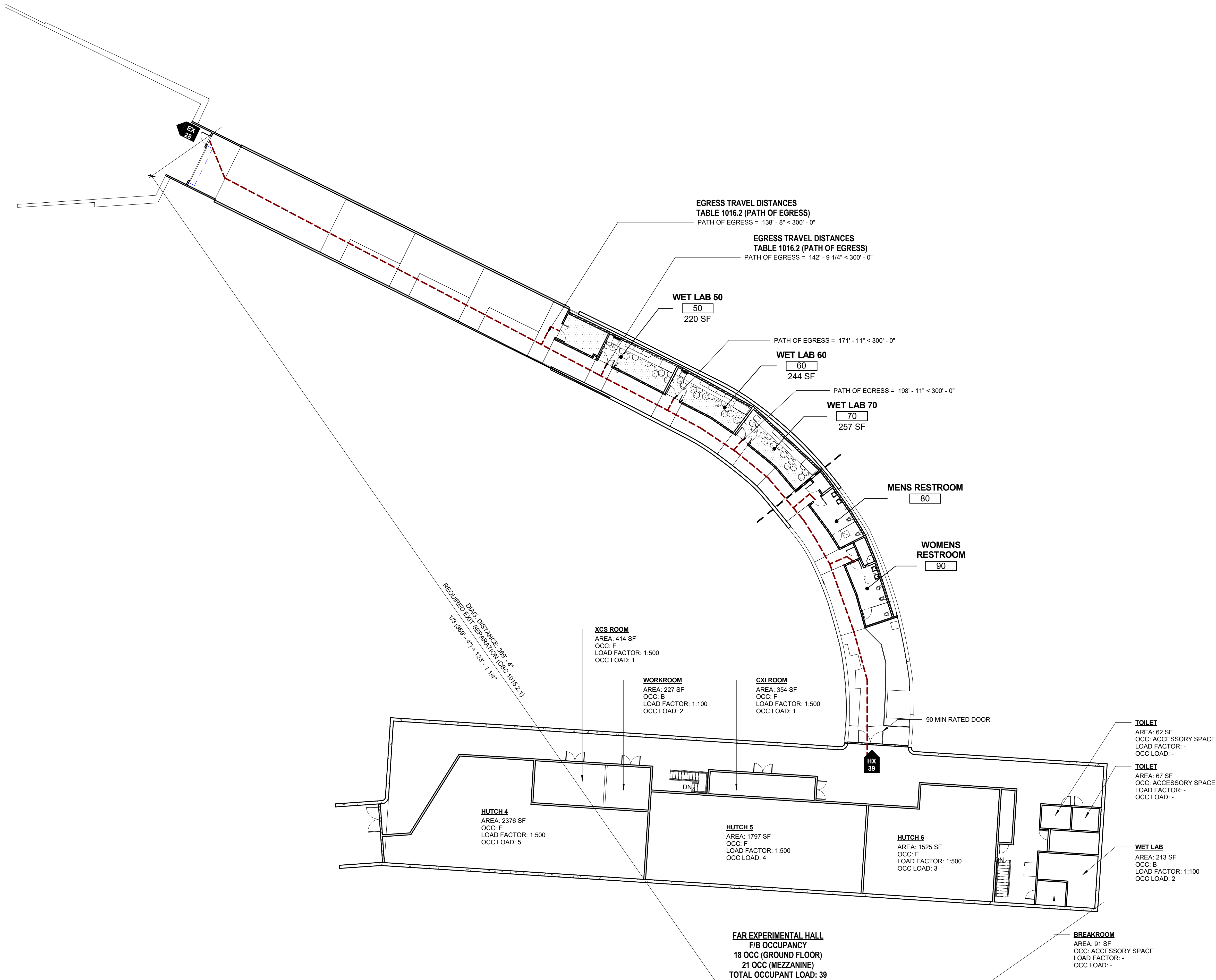


CBC 1004.1.1 EGRESS CALCULATIONS							
Room No.	Room	Occupancy Type	Occupant Load Factor	S.F.	Occupant Load	Required Egress Width	Stairway Egress Width
40	EQUIPMENT STORAGE	Accessory Storage Areas, Mechanical Equipment Room	300	130 SF	0	0' - 1"	0' - 1 1/2"
50	WET LAB 50	Business	100	220 SF	2	0' - 5 1/4"	0' - 8"
60	WET LAB 60	Business	100	244 SF	2	0' - 5 3/4"	0' - 8 3/4"
70	WET LAB 70	Business	100	257 SF	3	0' - 6 1/4"	0' - 9 1/4"
80	MENS RESTROOM	Accessory Storage Areas, Mechanical Equipment Room	300	160 SF	1	0' - 1 1/4"	0' - 2"
80A	IT CLOSET	Accessory Storage Areas, Mechanical Equipment Room	300	28 SF	0	0' - 0 1/4"	0' - 0 1/4"
90	WOMENS RESTROOM	Accessory Storage Areas, Mechanical Equipment Room	300	175 SF	1	0' - 1 1/2"	0' - 2"
90A	WET JANITORS CLOSET	Accessory Storage Areas, Mechanical Equipment Room	300	31 SF	0	0' - 0 1/4"	0' - 0 1/4"
Grand total: 8				1245 SF	9		



CODE ANALYSIS	
BUILDING USE	LABORATORY
PROJECT DESCRIPTION	RELOCATE 3 LAB SPACES INTO AN EXISTING FEH ACCESS TUNNEL. OCCUPANTS FROM FEH WALL SHIFT INTO ACCESS TUNNEL LABS. OCCUPANT LOAD WILL REMAIN UNCHANGED. PROVIDE ADDITIONAL SLAB FOR 4TH LAB. PROVIDE TWO NEW ACCESSIBLE MULTI-OCCUPANT RESTROOMS.
PROJECT SQUARE FOOTAGE	~3,860 SQFT
CODES	2013 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR 2013 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR 2013 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR 2013 CALIFORNIA ENERGY CODE PART 6, TITLE 24, CCR 2013 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR 2015 NFPA 101 - LIFE SAFETY CODE 2014 NFPA 70 - NATIONAL ELECTRICAL CODE
OCCUPANCY GROUP	GROUP B - BUSINESS (CBC SECTION 304) GROUP F - FACTORY (CBC SECTION 305)
CONSTRUCTION TYPE	TYPE II-B NON-COMBUSTIBLE CONSTRUCTION (CBC TABLE 601)
OCCUPANT LOADS	SEE PLAN
EXIT ACCESS TRAVEL DISTANCE	MAX TRAVEL = 300 FT (WITH AUTOMATIC SPRINKLER) PER CBC TABLE 1016.2
EGRESS MIN WIDTH	0.2' (OTHER EGRESS COMPONENTS) MULTIPLIED BY THE OCCUPANT LOAD BUT SHALL NOT BE LESS THAN REQUIRED IN SECTION 1008.1.1 (PER CBC SECTION 1005.3.2)
NUMBER OF EXITS	2 EXITS (CBC 1015.1 AND TABLE 1021.3) PER 1015.2.1.2, IN BUILDINGS FULLY EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE OF EXIT DOORS AND EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF AREA SERVED.
DOOR MIN WIDTH	MIN DOOR WIDTH OPENING = 44" (DOOR MINIMUM WIDTH)
DOOR SWING	EGRESS DOORS SHALL BE OF THE PIVOTED OR SIDE-HINGED SWINGING TYPE, (PER CBC SECTION 1008.1.2)
FIRE PROTECTION	FULLY SPRINKLERED
PLUMBING FIXTURE COUNT	OCCUPANT LOAD: 30 MALES/30 FEMALE  <b>MALE:</b> WATER CLOSETS: 1 PER 1-50 OCCUPANTS (2 PROVIDED) URINALS: 1 PER 1-100 OCCUPANTS (1 PROVIDED) LAVATORIES: 1 PER 1-50 OCCUPANTS (2 PROVIDED)  <b>FEMALE:</b> WATER CLOSETS: 2 PER 16-30 OCCUPANTS (3 PROVIDED) LAVATORIES: 1 PER 1-50 OCCUPANTS (2 PROVIDED)  *USING THE MORE STRINGENT REQUIREMENT BETWEEN B OCCUPANCY AND F OCCUPANCY PER 2013 CPC

ACCESS AND EGRESS LEGEND	
	EGRESS PATH OF TRAVEL
	EX = EXTERIOR EXIT HX = HORIZONTAL EXIT EE = EXIT ENCLOSURE EP = EXIT PASSAGEWAY 100 = OCCUPANT LOAD

1-HOUR SMOKE PARTITION TUNNEL CONSTRUCTION	
THE PROVISION OF 2-LAYERS OF 5/8" GYPSUM BOARD AT THE INTERIOR FACE OF THE CEILING JOISTS AND PURRED REAR WALL STUDS IS AN ALTERNATE MEANS OF PROVIDING A 1-HOUR SMOKE PARTITION. DAMPERS ARE NOT REQUIRED AT STEEL DUCTWORK PENETRATIONS THROUGH THE SMOKE PARTITION	

Keynote Legend Sheet	
Key Value	Keynote Text

1 FIRE LIFE SAFETY PLAN  
1/16" = 1'-0"

KJWW

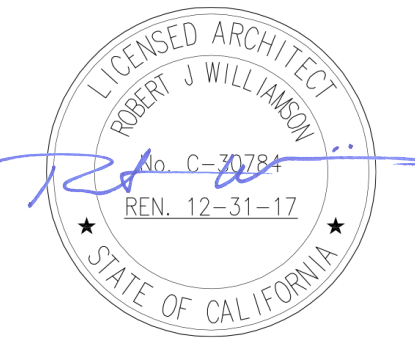
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ENGR  
DES Designer  
CHKR Checker

DATE  
01/13/2017

APPROVALS

DRAWING NUMBER  
B999G001-0001

REVISION  
A0



Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	01/27/2017

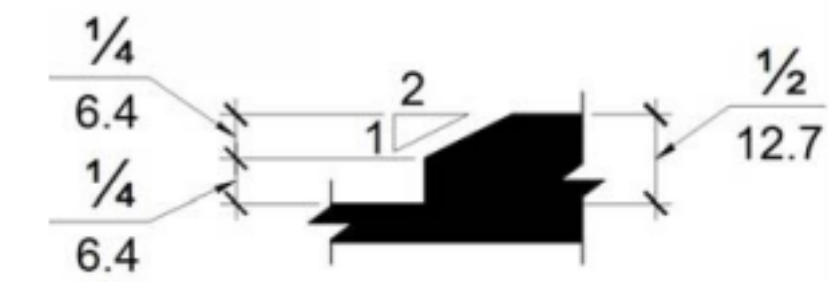


FIGURE 11B-303.3  
BEVELED CHANGE IN LEVEL

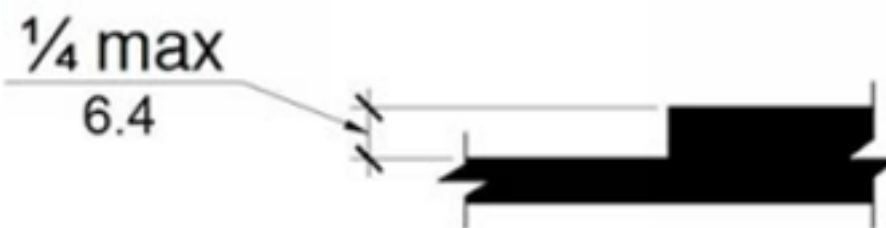


FIGURE 11B-303.2  
VERTICAL CHANGE IN LEVEL

11B-303 CHANGES IN LEVEL  
12" = 1'-0"

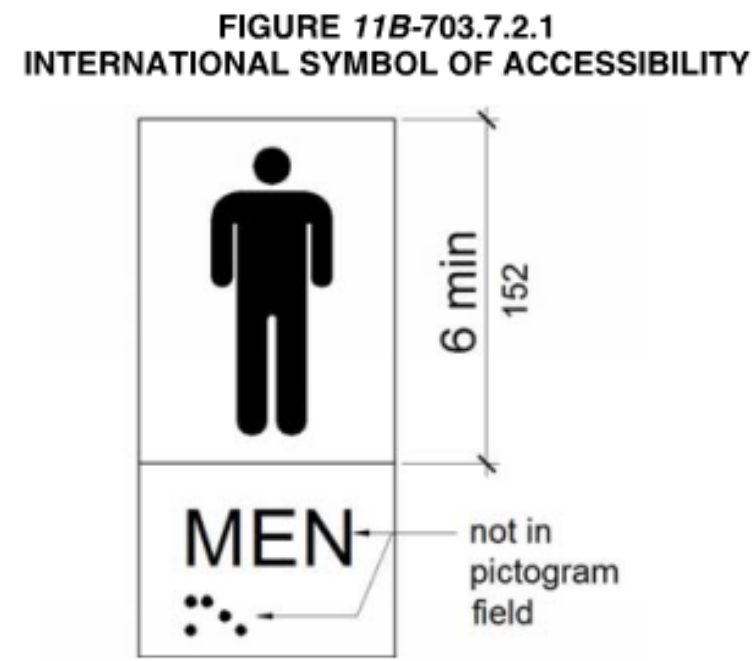
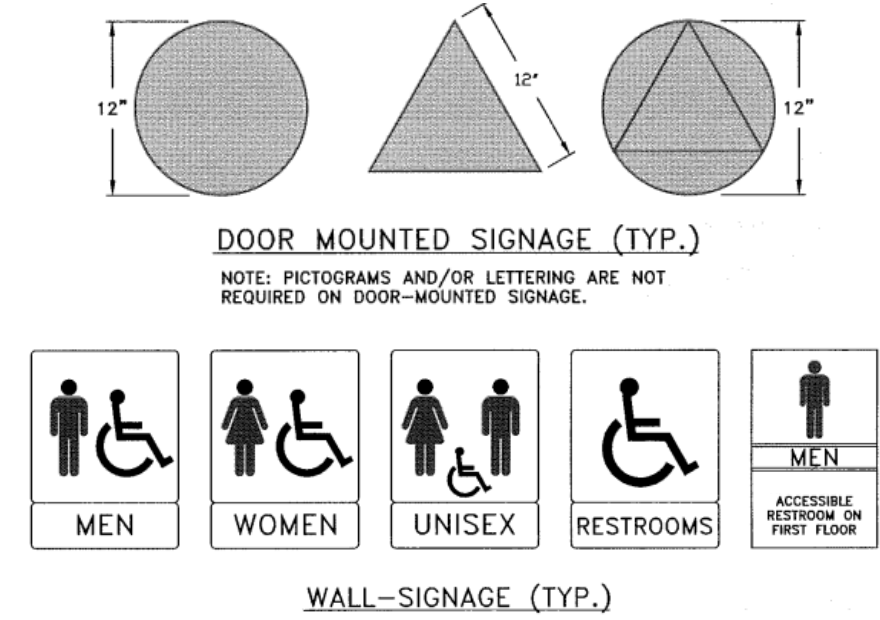
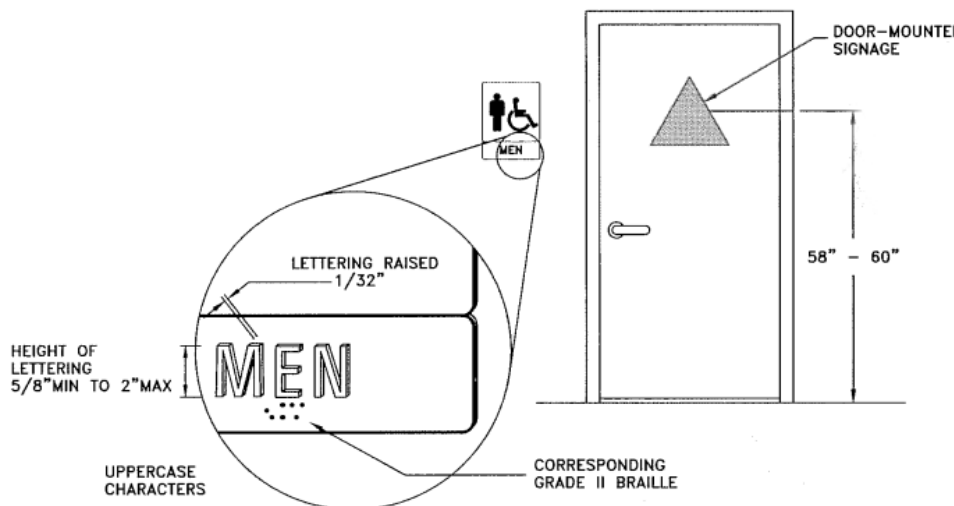


FIGURE 11B-703.2.1  
INTERNATIONAL SYMBOL OF ACCESSIBILITY



FIGURE 11B-703.2.2  
INTERNATIONAL SYMBOL OF TTY

FIGURE 11B-703.2.3  
VOLUME CONTROL TELEPHONE

FIGURE 11B-703.2.4  
INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

FIGURE 11B-703.2.5  
HEIGHT OF RAISED CHARACTERS

FIGURE 11B-703.2.6  
POSITION OF BRAILLE

FIGURE 11B-703.2.7  
INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 11B-703.2.8  
HEIGHT OF RAISED CHARACTERS

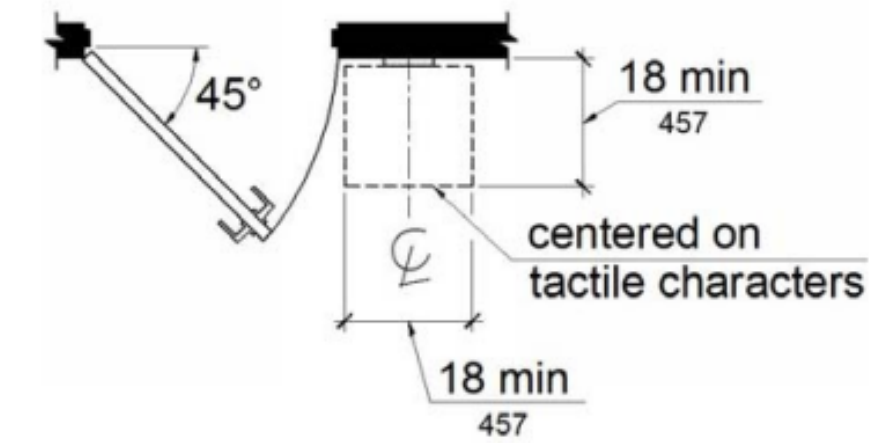


FIGURE 11B-703.4.2  
LOCATION OF TACTILE SIGNS AT DOORS

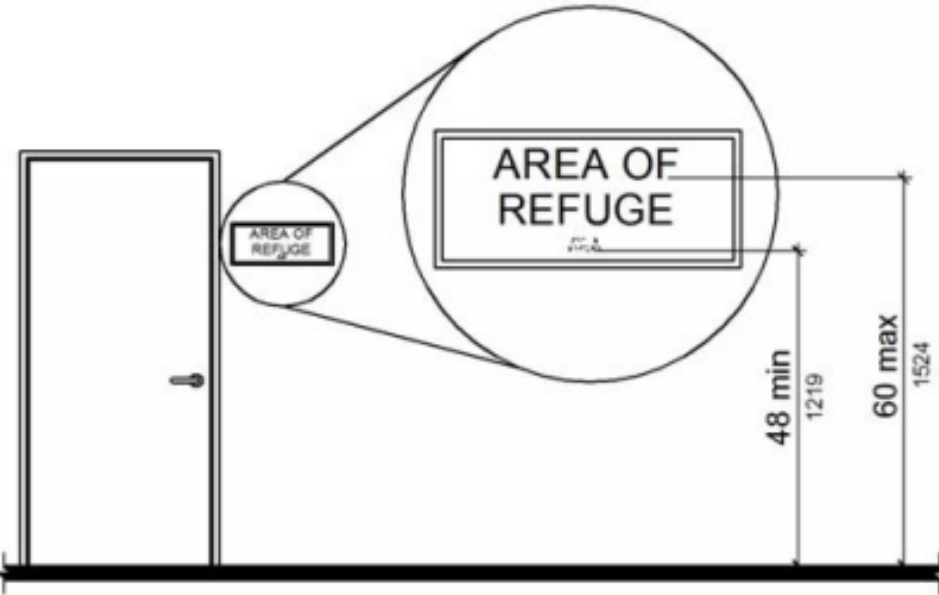


FIGURE 11B-703.4.1  
HEIGHT OF TACTILE CHARACTERS  
ABOVE FINISH FLOOR OR GROUND

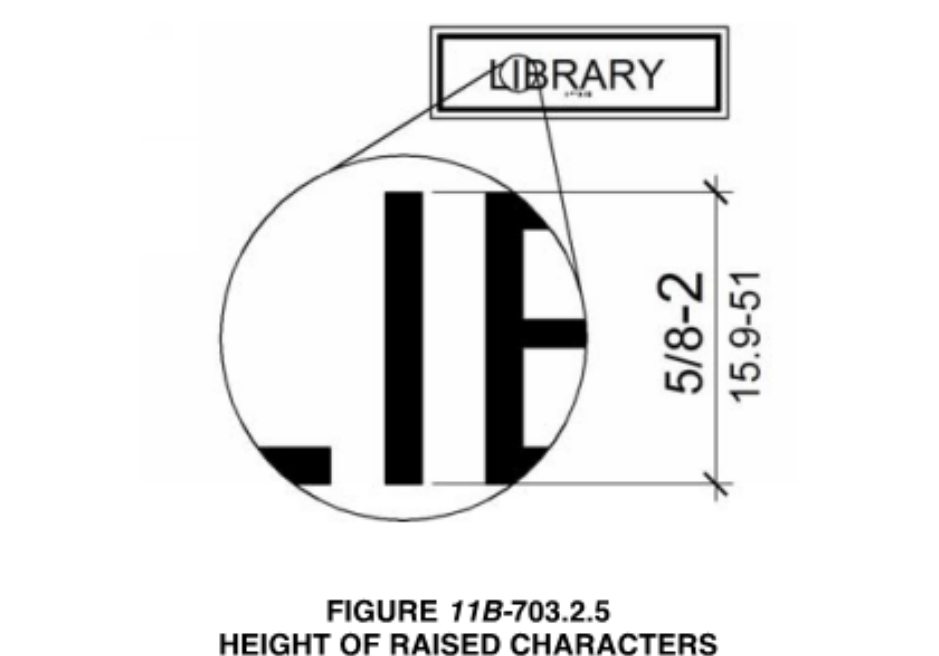
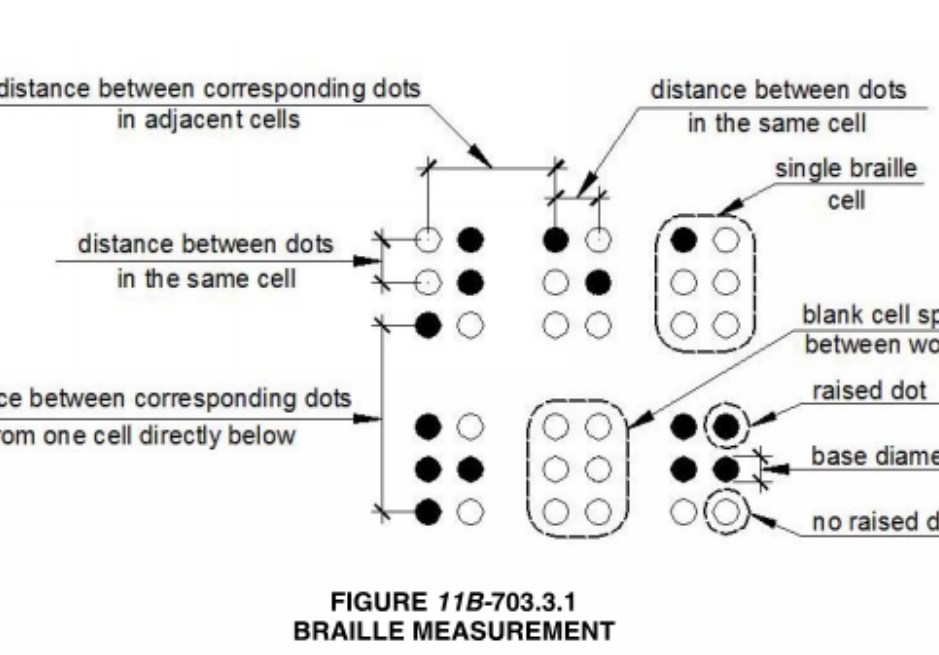
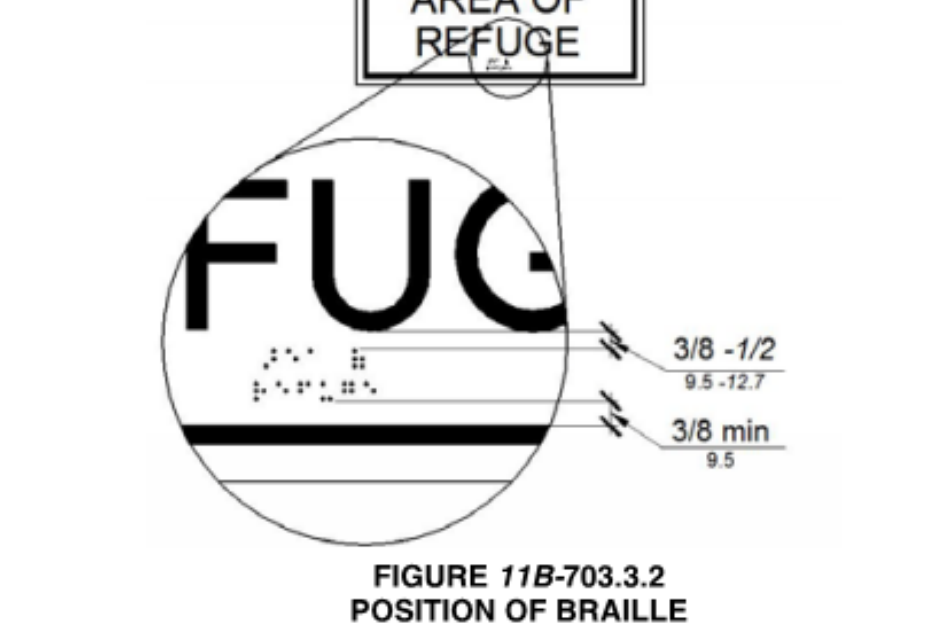


FIGURE 11B-703.2.5  
HEIGHT OF RAISED CHARACTERS

FIGURE 11B-703.2.6  
POSITION OF BRAILLE

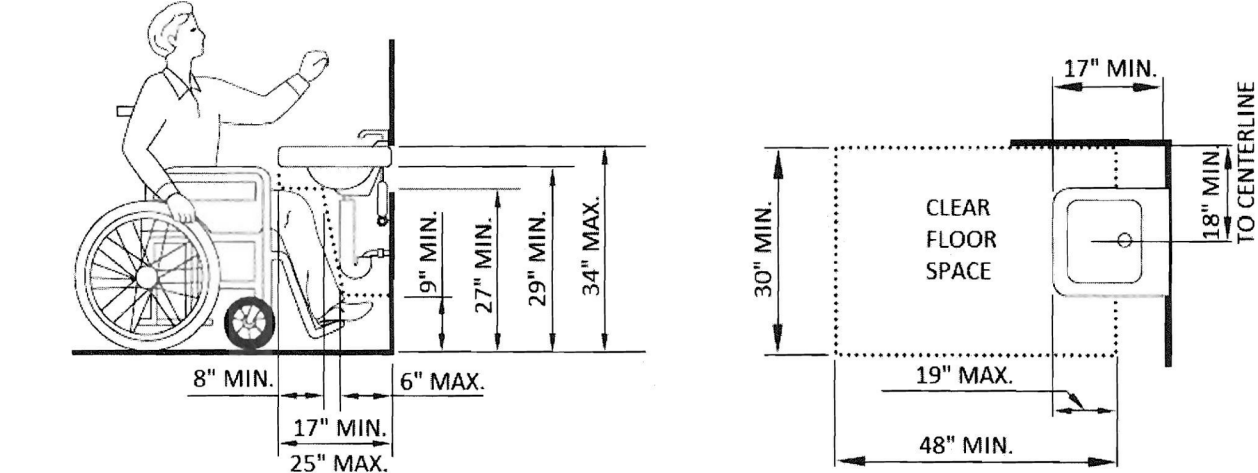
FIGURE 11B-703.2.7  
INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 11B-703.2.8  
HEIGHT OF RAISED CHARACTERS

FIGURE 11B-703.2.9  
POSITION OF BRAILLE

FIGURE 11B-703.2.10  
INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 11B-703.2.11  
INTERNATIONAL SYMBOL OF ACCESSIBILITY



(c) KNEE AND TOE SPACE FOR LAVATORIES

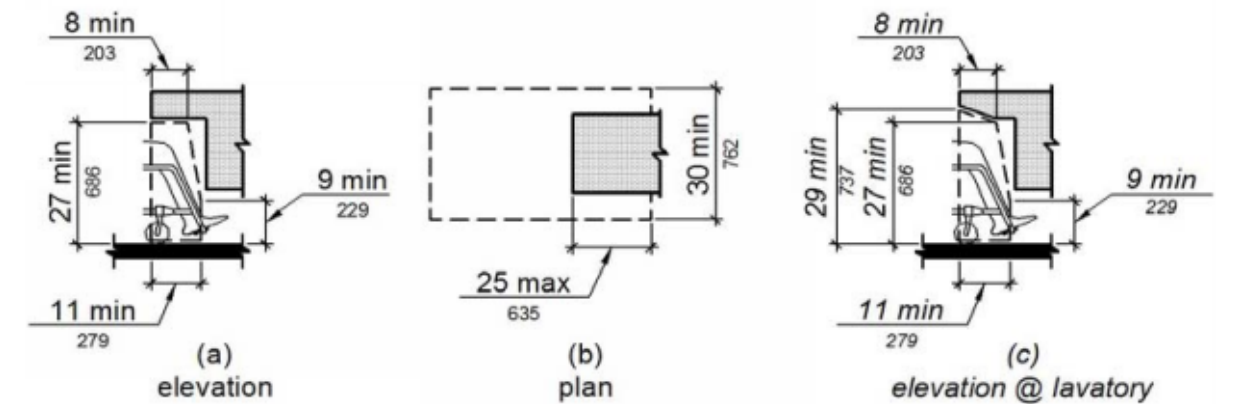


FIGURE 11B-306.3  
KNEE CLEARANCE

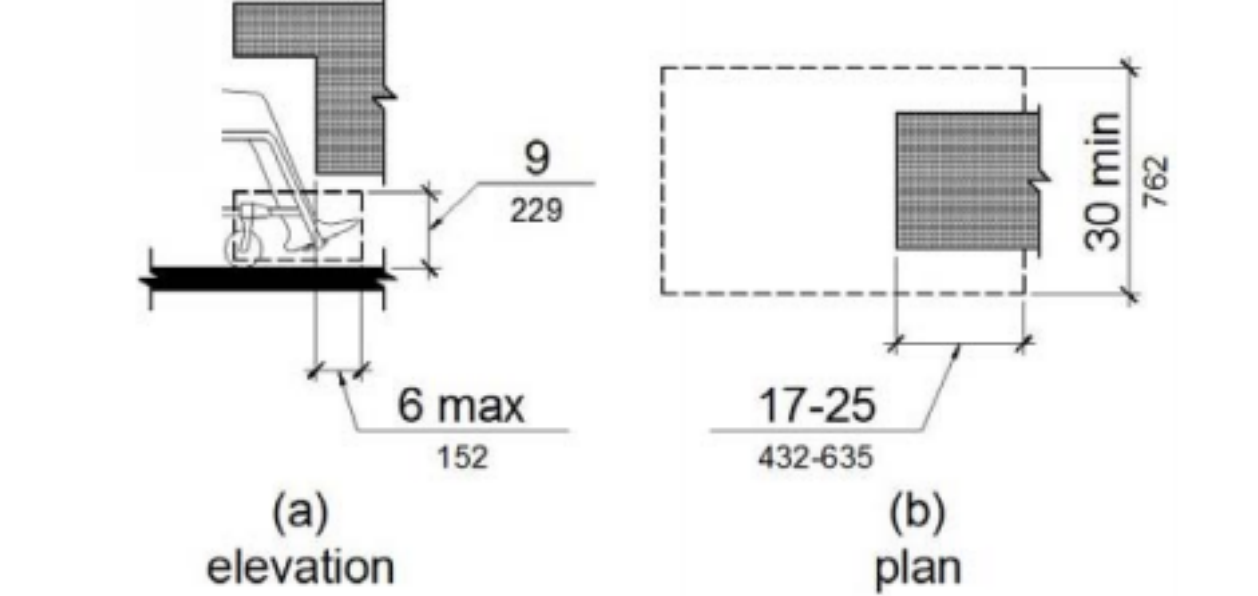


FIGURE 11B-306.2  
TOE CLEARANCE

E12 11B-306 KNEE AND TOE CLEARANCE  
NTS

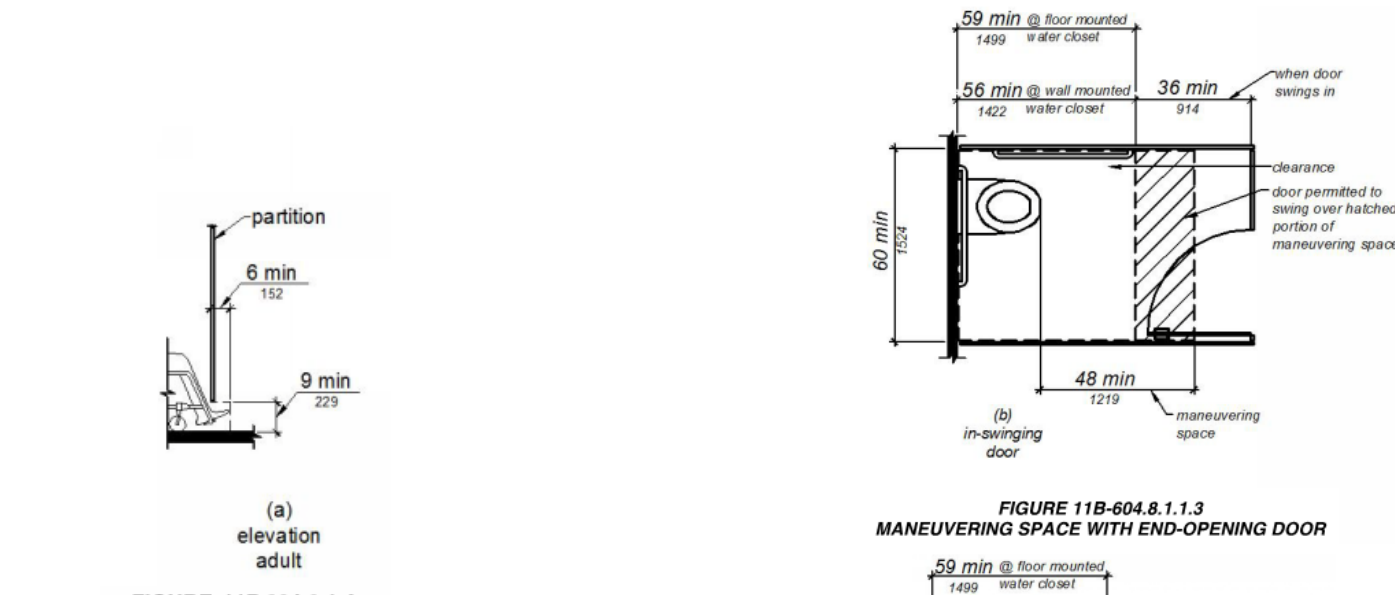


FIGURE 11B-604.8.1.4

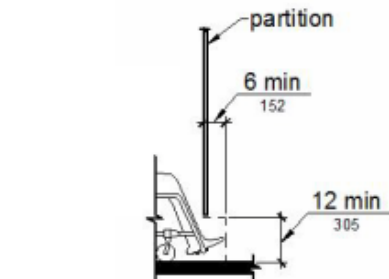


FIGURE 11B-604.8.1.4

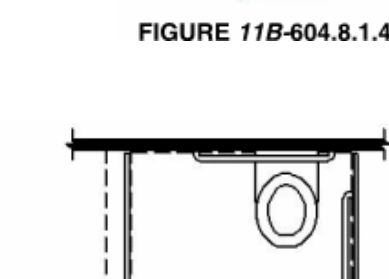


FIGURE 11B-604.8.1.4

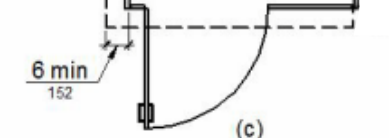


FIGURE 11B-604.8.1.4

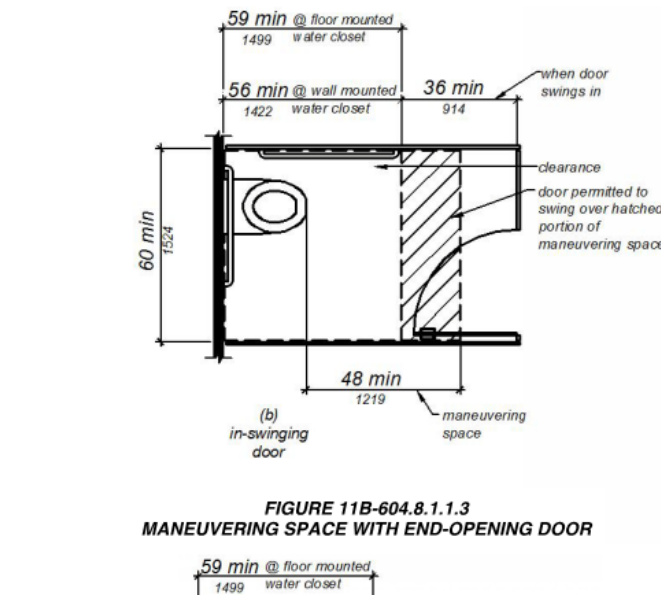


FIGURE 11B-604.8.1.2  
MANEUVERING SPACE WITH END-OPENING DOOR

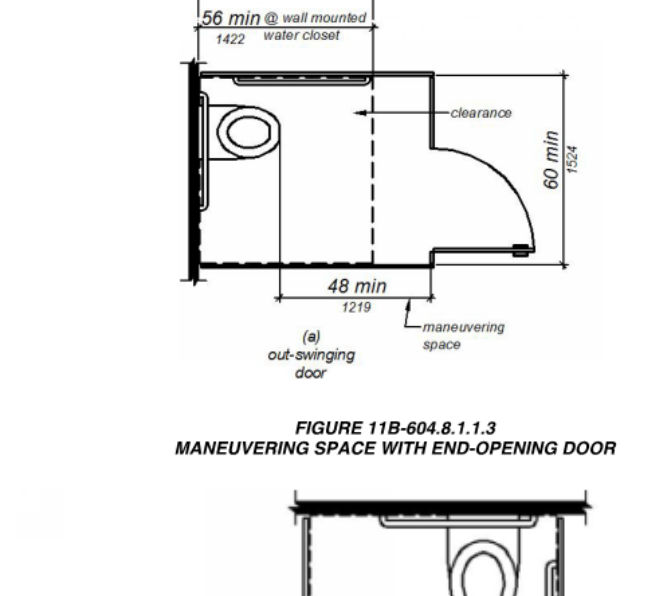


FIGURE 11B-604.8.1.3  
MANEUVERING SPACE WITH SIDE-OPENING DOOR

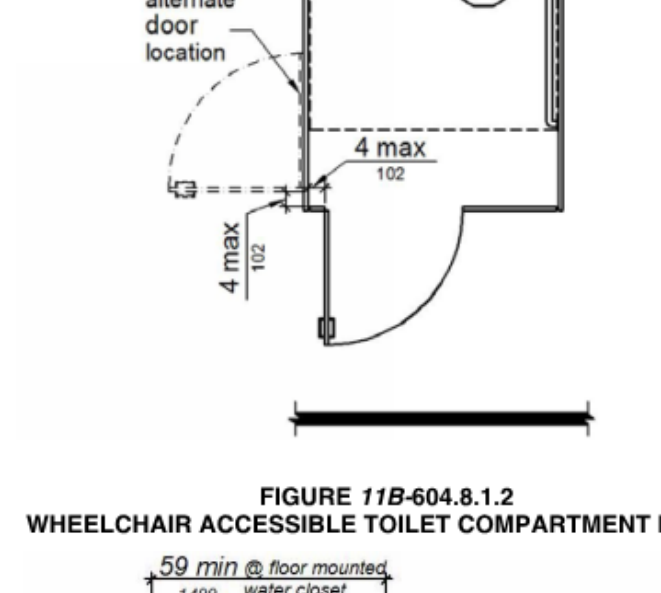


FIGURE 11B-604.8.1.2  
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

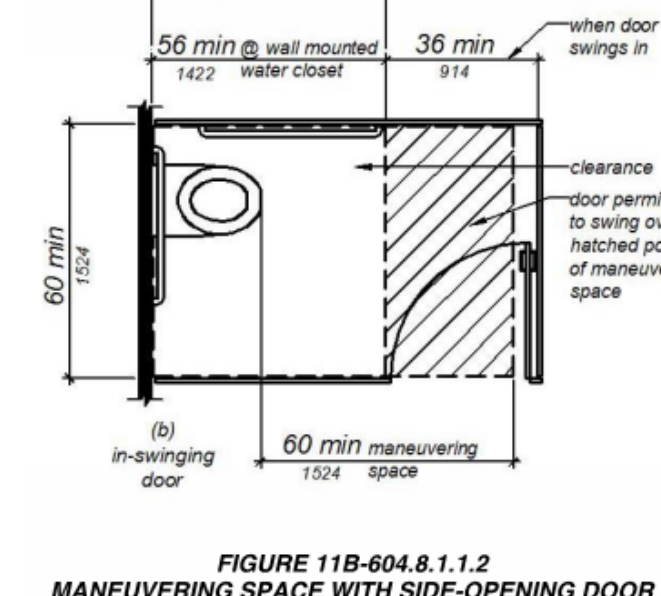


FIGURE 11B-604.8.1.2  
MANEUVERING SPACE WITH SIDE-OPENING DOOR

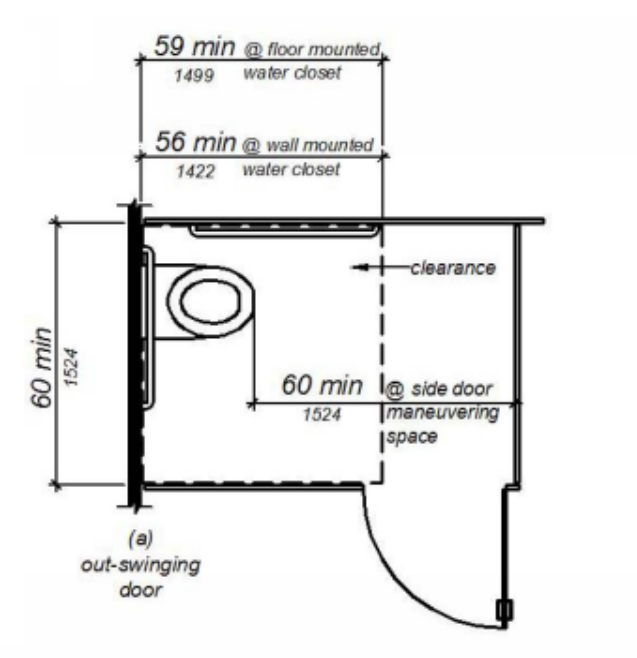


FIGURE 11B-604.8.1.2  
MANEUVERING SPACE WITH SIDE-OPENING DOOR

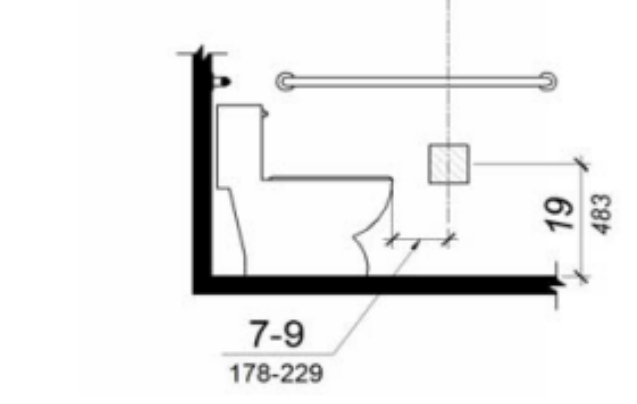


FIGURE 11B-604.7  
DISPENSER OUTLET LOCATION

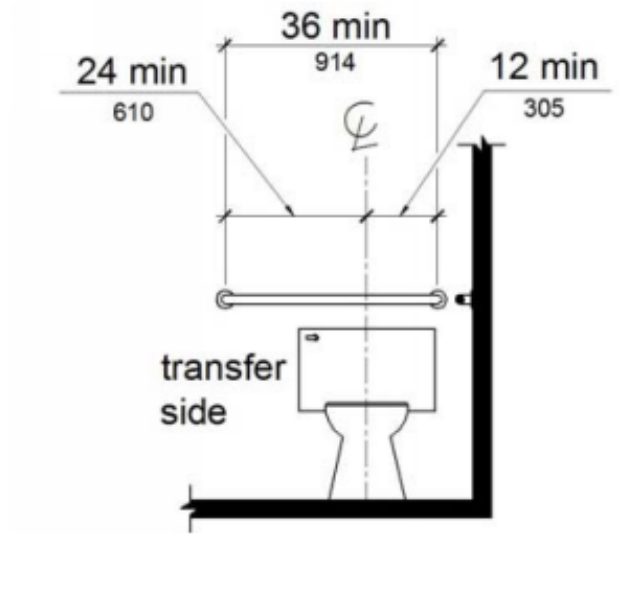


FIGURE 11B-604.5.2  
REAR WALL GRAB BAR AT WATER CLOSETS

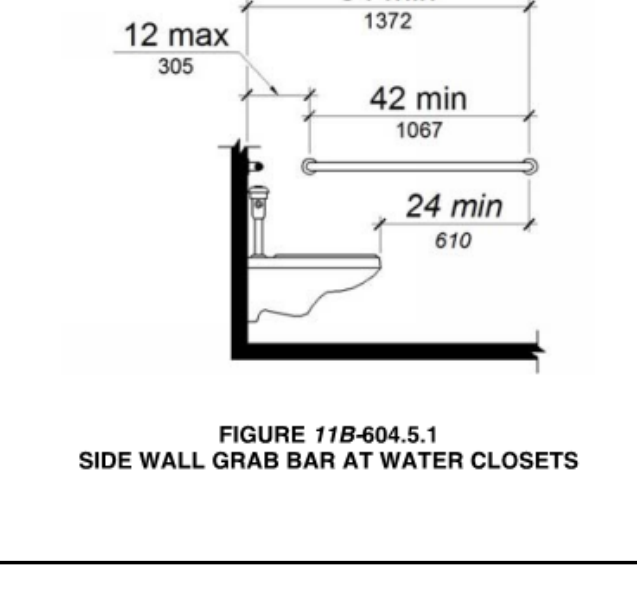


FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS

FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS

FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS

FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS

FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS

FIGURE 11B-604.5.1  
SIDE WALL GRAB BAR AT WATER CLOSETS



STRUCTURAL GENERAL NOTES:

GENERAL

- ALL WORK SHALL COMPLY WITH 2013 CALIFORNIA BUILDING CODE VOLUME 2 AND ALL OTHER LOCAL OR STATE AGENCIES HAVING JURISDICTION OVER THIS PROJECT.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ALL DIMENSIONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE.
- NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT OR ENGINEER SO THAT PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
- ALL STRUCTURAL ELEMENTS ARE NEW (N), UNLESS OTHERWISE CALLED OUT AS EXISTING.
- ALL ELEMENTS OF THE STRUCTURE WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING PREPARATION OF (E) TUNNEL FLOOR SLAB SHALL BE REPLACED AT NO ADDED COST TO THE OWNER. EXISTING ELEMENTS TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE DAMAGE TO A MINIMUM TO THE OWNER.

CONCRETE

- ALL CEMENT SHALL CONFORM AT ASTM C-150, TYPE I OR II.
- FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-387.
- NEW CONCRETE SHALL HAVE THE AIR-DRY UNIT WEIGHT OF 145 PCF AND MINIMUM 28 DAY STRENGTH OF 3600 PSI N.W. WITH 4" SLUMP.
- CONCRETE DESIGN MIXES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- PLACING OF ALL CONCRETE SHALL BE INSPECTED BY THE JOB INSPECTOR. INSPECTOR TO VERIFY THAT REINFORCING STEEL IS SECURELY SUPPORTED IN PLACE DURING THE POUR.
- ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
- ALL CONCRETE SHALL BE VIBRATED IN PLACE DURING PLACING OF CONCRETE.
- NO STAKES, STEEL OR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE. POURING AGAINST EXISTING CONCRETE SURFACE.
- ROUGHEN TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" AND CLEAN SURFACE PRIOR TO POURING AGAINST EXISTING CONCRETE SURFACE.
- TYPICAL CONCRETE COVER FOR REINFORCEMENT:  
FORMED SURFACES ABOVE GRADE .....1 1/2"

REINFORCING

- ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE HEREIN. ANY NEW REINFORCEMENT TO BE WELDED SHALL ALSO CONFORM TO THE CHEMICAL REQUIREMENTS OF ALLOY ASTM A706 REINFORCING STEEL.
- ALL REINFORCING BENDING DETAILS SHALL BE IN ACCORDANCE WITH 2013 CBC PART 2, TITLE 24, CCR SECTION 1907.1, 1907.2, AND 1907.3.
- REINFORCING BARS SHALL BE SPLICED AND BENT IN STRICT ACCORDANCE WITH THE DRAWINGS AND DETAILS AND C.R.S.I. PUBLICATIONS. NO KINKS ALLOWED. ALL BARS SHALL BE CLEAN PRIOR TO CONCRETE PLACEMENT.
- PROVIDE DOWELS OF SAME SIZE AND NUMBER FROM ADJACENT POUR, BOTH VERTICALLY AND HORIZONTALLY TO MATCH TYPICAL REINFORCING SHOWN. LAPS TO BE IN ACCORDANCE WITH THE DRAWINGS AND DETAILS. DOWELS SHALL BE CLEANED AFTER POUR.
- FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

QUALITY CONTROL

- UNLESS NOTED OTHERWISE, MATERIALS SHALL CONFORM AND TESTS AND INSPECTIONS SHALL BE PERFORMED BY THE APPROVED TESTING AGENCY AND/OR THE JOB INSPECTOR WHO IS APPROVED BY GOVERNING AGENCY, THE ARCHITECT AND THE STRUCTURAL ENGINEER AND CONFORM TO THE PROVISIONS OF SECTION 17 AGENCY, 2013 CALIFORNIA BUILDING CODE, TITLE 24, PART 2, COR. SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING WORK:  
A) CONCRETE CONSTRUCTION: SPECIAL INSPECTION AND VERIFICATIONS SHALL BE IN ACCORDANCE WITH SECTION 1705.3.  
B) EPOXY ANCHORS: PERIODIC INSPECTION SHALL BE PROVIDED FOR ANCHORS INSTALLED IN HARDENED CONCRETE IN ACCORDANCE WITH SECTION 1705.3.

DESIGN PARAMETERS

- STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH THE 2013 CALIFORNIA BUILDING CODE (CBC).
- SEISMIC:  
  
SITE CLASS: D  $S_s$  : 2.288g  
OCCUPANCY CATEGORY II  $S_1$  : 0.958g  
SEISMIC DESIGN CATEGORY: D  $SD_1$  : 1.525g  
 $SD_1$  : 0.958g
- DESIGN INTENT: THE PRIMARY INTENT OF THESE DRAWINGS IS TO PROVIDE CONSTRUCTION DOCUMENTS FOR THE STRUCTURAL DETAILING ASSOCIATED WITH THE RELOCATION OF (E) MEP EQUIPMENT AND THE CONSTRUCTION OF (N) LABORATORIES AND RESTROOMS IN THE SLAC ACCESS TUNNEL.

EXPANSION ANCHOR BOLTS

- USE ONLY EXPANSION ANCHOR SYSTEMS THAT HAVE BEEN ISSUED AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES AC108. ANCHOR SYSTEMS SHOULD BE APPROVED FOR USE IN CRACKED CONCRETE AND SEISMIC DESIGN CATEGORIES A-F PER SECTION 2.0 OF THE ICC EVALUATIONS SERVICES REPORT. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC-ES EVALUATION SERVICES REPORT FOR THE SPECIFIC ANCHOR, AND AS REQUIRED BY THE MANUFACTURER, DESIGN, INSTALLATION & TESTING TO COMPLY WITH 2013 CBC SECTION 1916A.7.
- REQUIRED TEST LOADS SHALL BE DETERMINED AS THE LESSER OF TWICE THE MINIMUM ALLOWABLE TENSION LOAD PROVIDED IN THE ICC-ESR FOR THE SPECIFIC ANCHOR OR 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT, AS SUMMARIZED IN THE TABLES BELOW:

NOMINAL ANCHOR DIAMETER	EMBEDMENT DEPTH, H <sub>ef</sub> (INCHES)	INSTALLATION TORQUE (FT-LB)	LOAD	
			NORMAL-WEIGHT CONCRETE F' <sub>c</sub> = 2500 PSI	
			CARBON STEEL	STAINLESS STEEL
3/8	2	25	1268	1268
1/2	2	40	1268	1268
1/2	3-1/4	40	2275	2275
5/8	3-1/8	60	1737	1737

- WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC-ES EVALUATION SERVICES REPORT CALL FOR THE APPLICATION OF AN INSTALLATION TORQUE, THE SPECIFIED TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED.
- THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE CONTINUOUSLY DURING ANCHOR INSTALLATIONS, UNLESS OTHERWISE NOTED IN ICC-ES ESR, TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.
- THE TENSION TESTING OF THE EXPANSION ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHORS FAIL THE TENSION-TESTING REQUIREMENTS, THE ADDITIONAL TESTING REQUIREMENTS SHALL BE ACCEPTABLE TO THE ENFORCEMENT AGENCY. TEST QUANTITY OF ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
NON-STRUCTURAL	50% OF BOLTS

- ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE SPECIAL INSPECTOR.

- RELOCATED MEP FLOOR MOUNTED EQUIPMENT TO BE CONNECTED TO (N) LEVEL CONCRETE PAD WITH SAME SIZE AND QUANTITY OF ANCHORS PER THE SCHEDULE BELOW.

EXPANSION ANCHORS		
SIZE	TYPE	EMBED. LENGTH
1/4"	HILTI HUS-EZ	2 1/2"
3/8"	HILTI KB-TZ	2"
1/2"	HILTI KB-TZ	3 1/4"
5/8"	HILTI KB-TZ	3 1/8"
3/4"	HILTI KB-TZ	3 3/4"

HILTI KB-TZ ANCHORS TO BE INSTALLED PER ICC-ESR-1917.  
HILTI HUS-EZ ANCHORS TO BE INSTALLED PER ICC ESR-3027.

DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS WHICH ARE TO BE IN THE FINISHED BUILDING.
- ALL ELEMENTS OF THE STRUCTURE WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST TO THE OWNER. EXISTING ELEMENTS TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE DAMAGE TO A MINIMUM.

NON-STRUCTURAL	50% OF BOLTS
----------------	--------------

ABBREVIATIONS

Ø	Diameter	Fir	Floor
#	Number or pounds	Ft	Feet
@	At	Fig.	Footing
ALT.	Alternate	Ht	Height
B.O.F.	Bottom of Footing	L	Angle
Bm.	Beam	LB	Pound
Bot.	Bottom	Max.	Maximum
CL	Center line	Mech.	Mechanical
Clr.	Clear	Min.	Minimum
Dbl.	Double	(N)	New
Det.	Detail	N.T.S.	Not to Scale
Dia.	Diameter	No.	Number
Dim.	Dimension	O.C.	On Center
Dwg.	Drawing	O.F.	Outside Face
(E)	Existing	O.H.	Opposite Hand
E.F.	Each Face	S.A.D.	See Architectural Drawings
Eq.	Equal	SIM	Similar
E.S.	Each Side	SQG	Slab on Grade
E.W.	Each Way	Sq.	Square
Ea.	Each	Std.	Standard
El.	Elevation	Stl	Steel
Elev.	Elevator or Elevation	T&B	Top and Bottom
E.O.S.	Edge of Slab	T.O.	Top of
Equiv.	Equivalent	T.O.S.	Top of Slab
Exist.	Existing	T.O.W.	Top of Wall
Exp.	Expansion	Thk.	Thick
Extr.	Exterior	Typ.	Typical
F.O.	Face of	U.N.O.	Unless Noted Otherwise
F.O.W.	Face of Wall	V.O.S.	Verify on Site
		Vert.	Vertical
		Wt.	Weight

LEGEND

Earth	
Concrete- Poured in Place	
Gravel	
Grout or Drypack	
(E) Concrete	
(N) Sloping Slab	
Detail	
Section	
Elevation	
Bldg. Section	
Wall Section	

STRUCTURAL DRAWING LIST

SLAC Drawing Number	SHEET #	SHEET NAME
STRUCTURAL		
B999S000-0006	S-100	GENERAL STRUCTURAL NOTES
B999S001-0007	S-200	FOUNDATION PLAN
B999S005-0008	S-300	(N) CONCRETE PAD DETAILS
B999S005-0009	S-301	(N) MEP SUPPORT DETAILS (1 of 2)
B999S005-0010	S-302	(N) MEP SUPPORT DETAILS (2 of 2)
B999S005-0011	S-303	(N) EXHAUST FAN SUPPORT DETAILS

TOTAL: 6 SHEETS

- STRUCTURAL COMPONENT TESTING AND INSPECTION
- THE FOLLOWING TESTING AND INSPECTION OF STRUCTURAL COMPONENTS IS REQUIRED AS DETAILED IN CHAPTER 17 OF THE 2013 CALIFORNIA BUILDING CODE (CBC) AND PROJECT SPECIFICATIONS.
  - SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
  - WORK PERFORMED ON THE PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL PER SECTION 1704.2.5.2 OF CHAPTER 17 OF THE 2013 CALIFORNIA BUILDING CODE NEED NOT BE TESTED AND INSPECTED PER THE TABLE BELOW. THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS TO THE BUILDING OFFICIAL AND THE ARCHITECT AND ENGINEER OF RECORD.
  - DUTIES OF THE SPECIAL INSPECTION AGENCY (CBC CHAPTER 17):
    - SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. THE TABLE BELOW SHALL SERVE AS A GUIDELINE FOR THE SCOPE OF THE TESTING AND INSPECTION PROGRAM.
    - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
    - FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
    - SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
<b>FOUNDATION PREPARATION</b>				
VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		1705.6
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X		1705.6
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X		1705.6
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X			1705.6
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PROPERLY PREPARED.		X		1705.6
<b>CONCRETE AND CONCRETE PLACEMENT</b>				
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 6.1.1	
INSPECTION OF FABRICATORS AND DURING FABRICATION.		X		1704.2.5
INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS AND PLACEMENT.		X	ACI 318: 3.5, 7.1-7.7	1705.3
REVIEW OF PROPOSED MIX DESIGN AND SUPPORTING TEST RESULTS.		X		
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X		ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		X	ACI 318: 3.8.6, 8.1.3, 21.1.8	1909.1
VERIFYING USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C172, ASTM C31, ACI 318: 5.8, 5.9	1910.10
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		ACI 318: 5.9, 5.10	1910.6, 1910.7
<b>INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.</b>		X	ACI 318: 5.11 + 5.13	1910.9
AISC 360 - CHAPTER N: STRUCTURAL STEEL QUALITY ASSURANCE				
O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.				
P - PERFORM THESE TASKS FOR EACH WELDED JOINT MEMBER.				
<b>INSPECTION TASKS PRIOR TO WELDING</b>				
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE		P		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		P		
MATERIAL IDENTIFICATION (TYPE / GRADE)		O		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		O		
• JOINT PREPARATION				
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				
• CLEANLINESS (CONDITION OF STEEL SURFACES)				
• TACKING (TACK WELD QUALITY AND LOCATION)				
• BACKING TYPE AND FIT (IF APPLICABLE)				
CONFIGURATION AND FINISH OF ACCESS HOLES		O		
FIT-UP OF FILLET WELDS		O		
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				
• CLEANLINESS (CONDITION OF STEEL SURFACES)				
• TACKING (TACK WELD QUALITY AND LOCATION)				
<b>INSPECTION TASKS DURING WELDING</b>				
USE OF QUALIFIED WELDERS		O		
CONTROL AND HANDLING OF WELDING CONSUMABLES		O		
• PACKAGING				
• EXPOSURE CONTROL				
NO WELDING OVER CRACKED TACK WELDS		O		
ENVIRONMENTAL CONDITIONS		O		
• WIND SPEED WITHIN LIMITS				
• PRECIPITATION AND TEMPERATURE				
WPS FOLLOWED		O		
• SETTINGS ON WELDING EQUIPMENT				
• TRAVEL SPEED				
• SELECTED WELDING MATERIALS				
• SHIELDING GAS TYPE / FLOW RATE				
• PREHEAT APPLIED				
• INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX.)				
• PROPER POSITION (F.V.H.O.H)				
WELDING TECHNIQUES		O		
• INTERPASS AND FINAL CLEANING				
• EACH PASS WITHIN PROFILE LIMITATIONS				
• EACH PASS MEETS QUALITY REQUIREMENTS				
<b>INSPECTION TASKS AFTER WELDING</b>				
WELDS CLEANED		O		
SIZE, LENGTH, AND LOCATION OF WELDS		P		
WELDS MEETS VISUAL ACCEPTANCE CRITERIA		P		
• CRACK PROHIBITION				
• WELD / BASE-METAL FUSION				
• CRATER CROSS SECTION				
• WELD PROFILES				
• WELD SIZE				
• UNDERCUT				
• POROSITY				
ARC STRIKES		P		
REPAIR ACTIVITIES		P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		P		
<b>INSPECTION TASKS PRIOR TO BOLTING</b>				
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.		P		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.		O		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).		O		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.		O		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.		O		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.		O		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.		O		
<b>INSPECTION TASKS DURING BOLTING</b>				
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.		O		
JOINT BROUGHT TO THE SNUG CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.		O		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.		O		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGE.		O		
<b>INSPECTION TASKS AFTER BOLTING</b>				
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.		P		
<b>OTHER INSPECTION TASKS</b>				
INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL, AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED		P		
INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		O		
<b>INSPECTION TASKS AFTER WELDING</b>				
WELDER IDENTIFICATION LEGIBLE		O		
PLACEMENT OF REINFORCEMENT FILLETS.		P		
<b>STEEL DECK</b>				
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X	APPLICABLE ASTM MATERIAL STANDARDS	
B. MANUFACTURER'S CERTIFIED TEST REPORTS.		X		
2. INSPECTION OF WELDING:				
A. FLOOR AND ROOF DECK WELDS.		X	AWS D1.3	

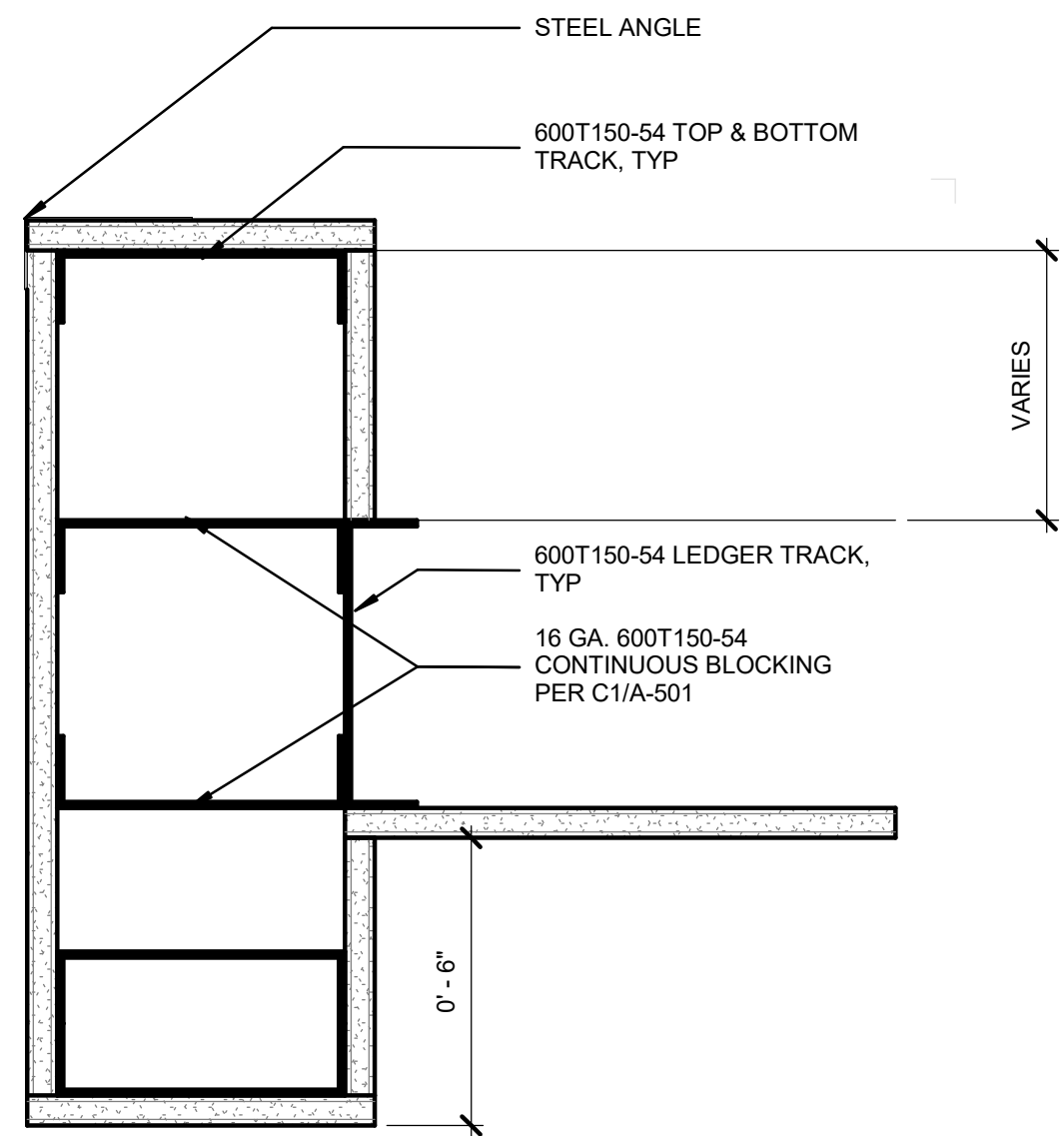




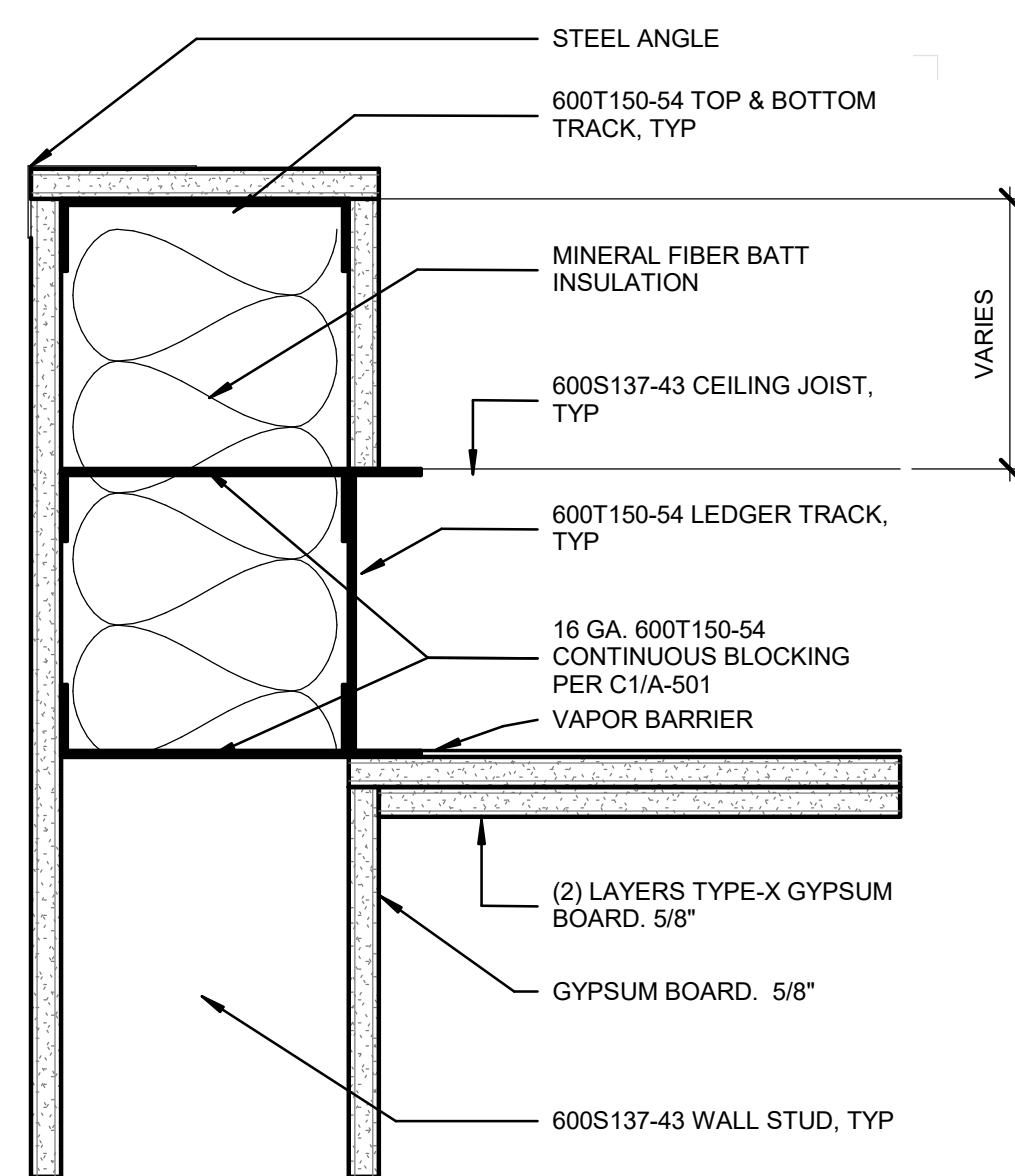




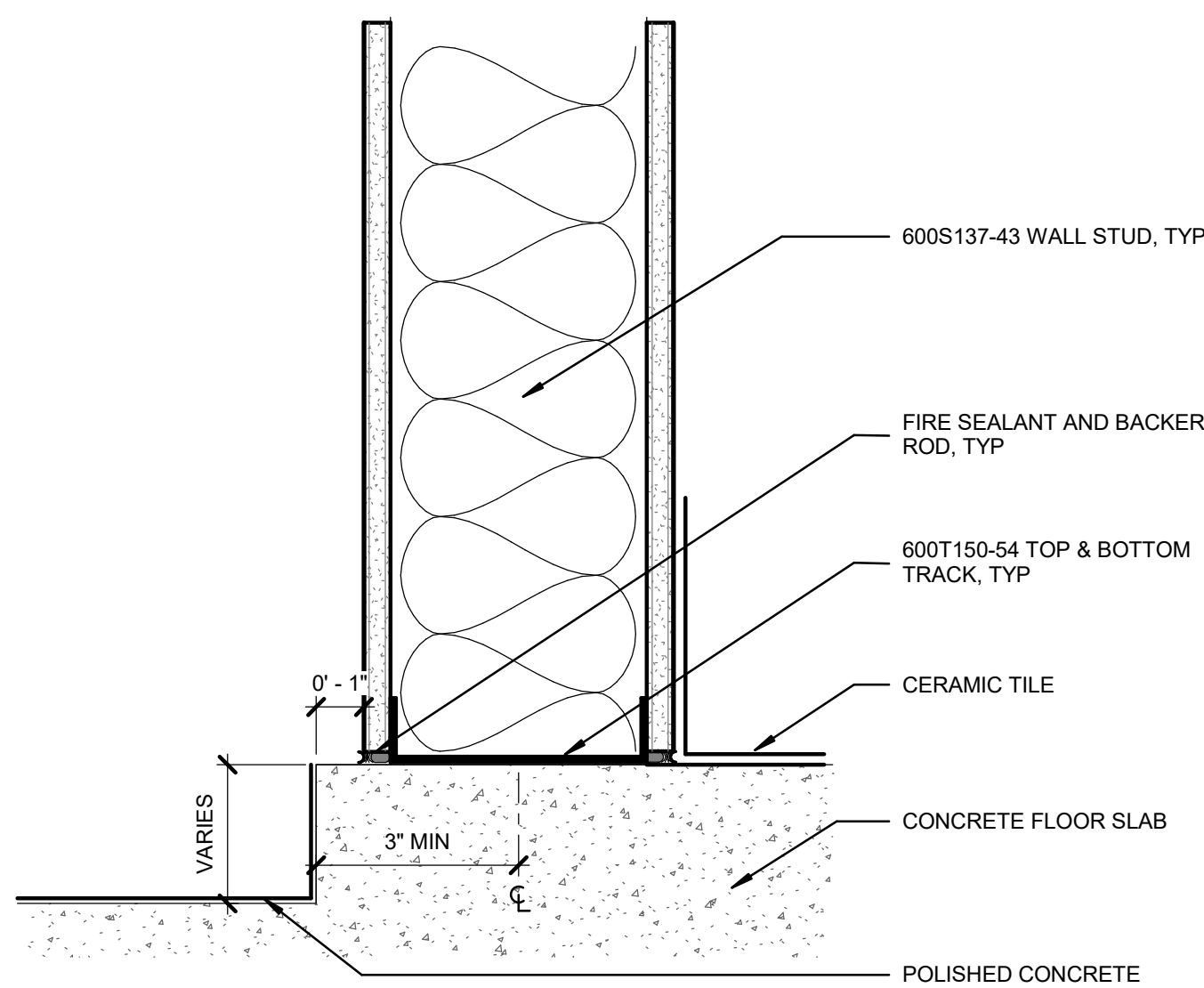
Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	01/27/2017



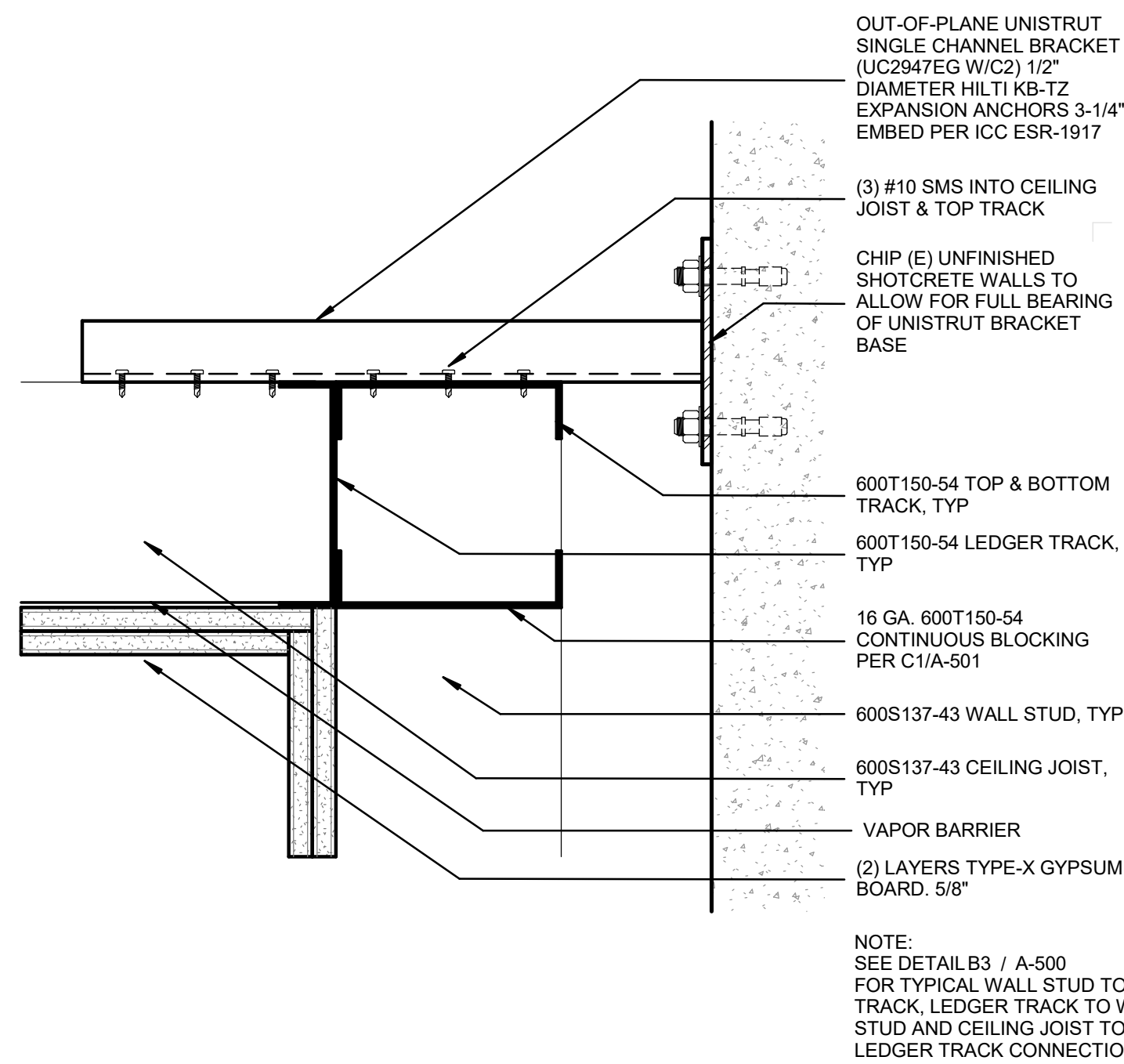
C1 TOP OF CORRIDOR SOFFIT  
3" = 1'-0"



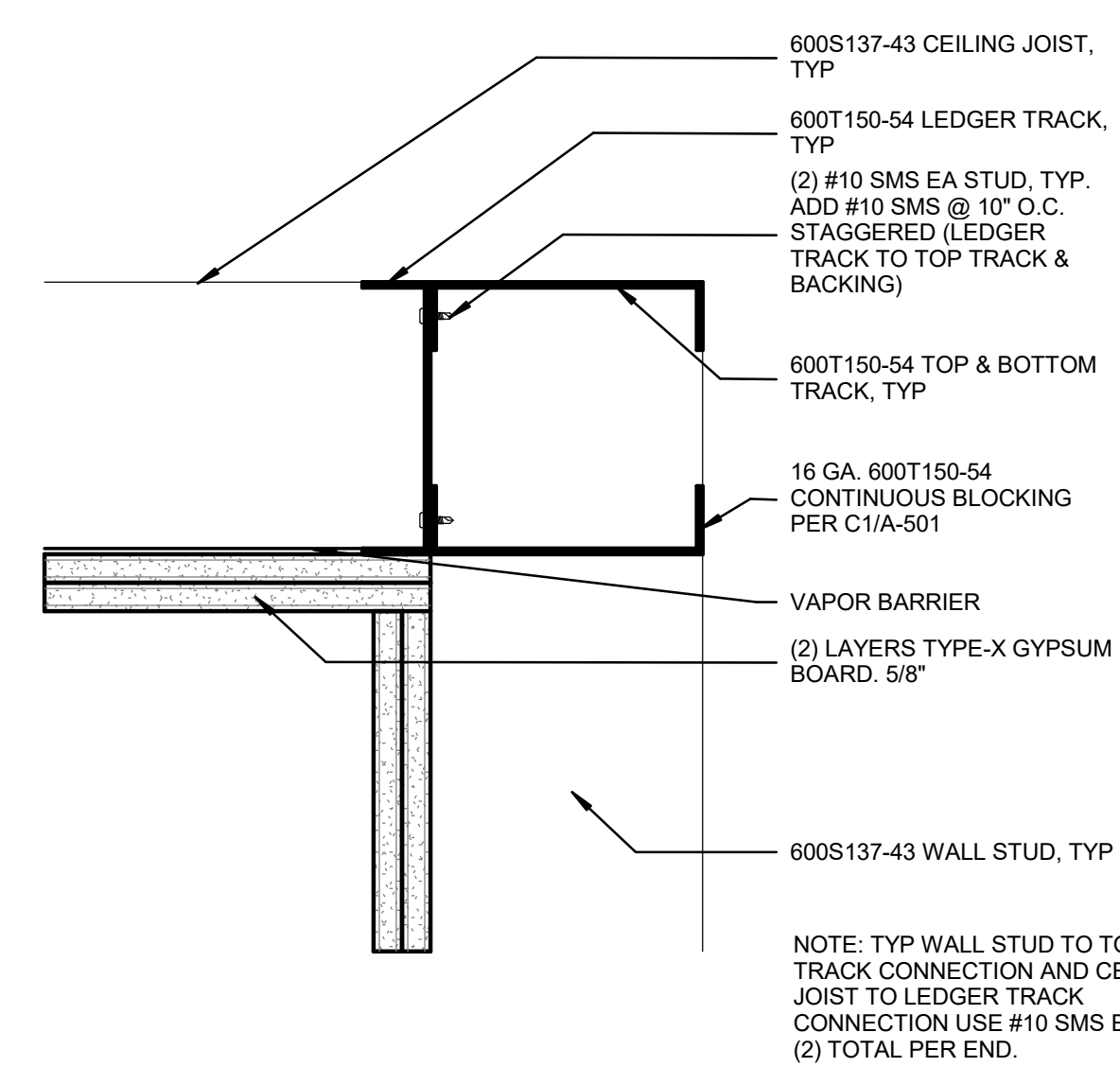
B1 TOP OF 1-HR CORRIDOR WALL  
3" = 1'-0"



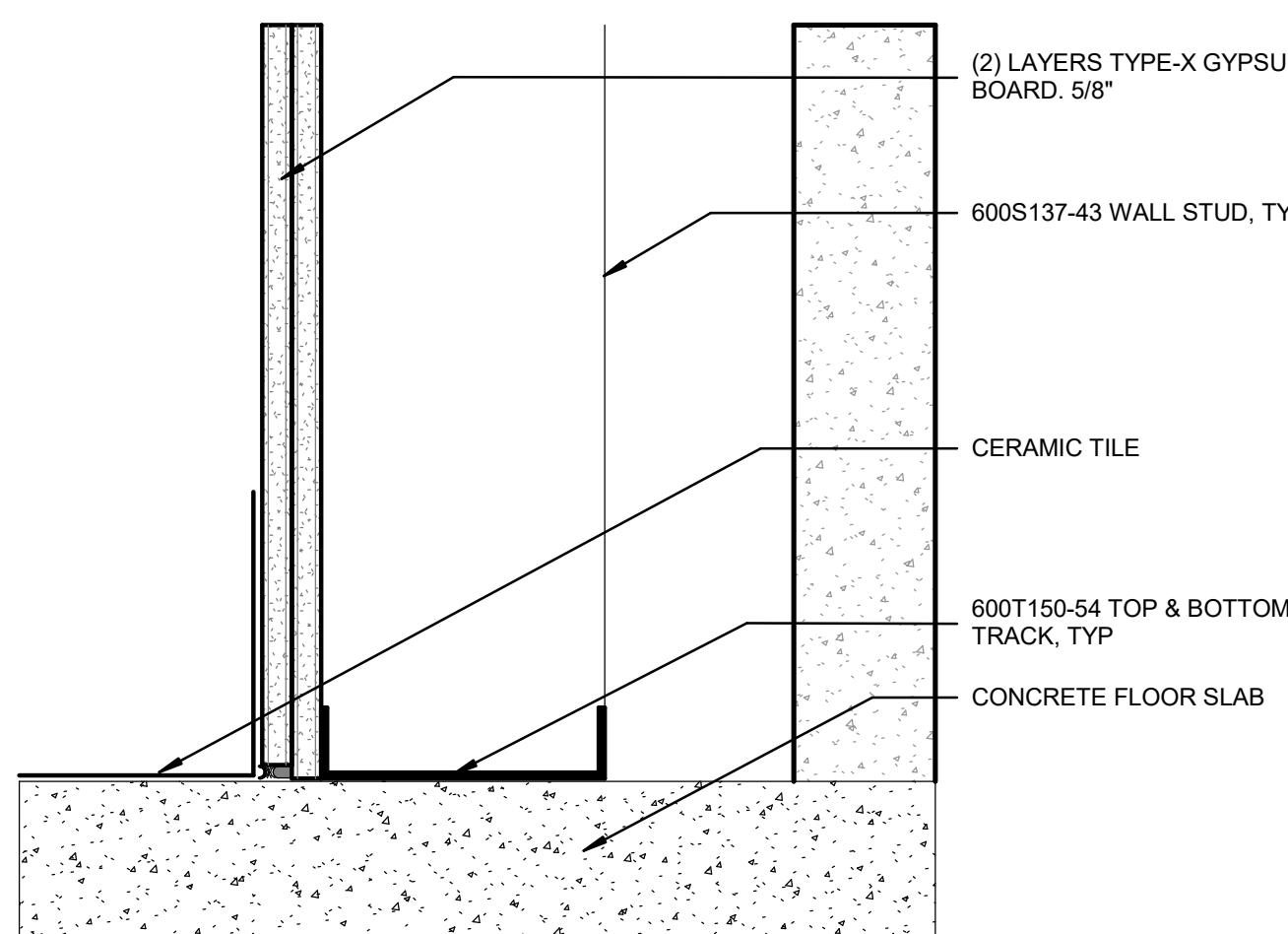
A1 1 HOUR PARTITION SILL  
3" = 1'-0"



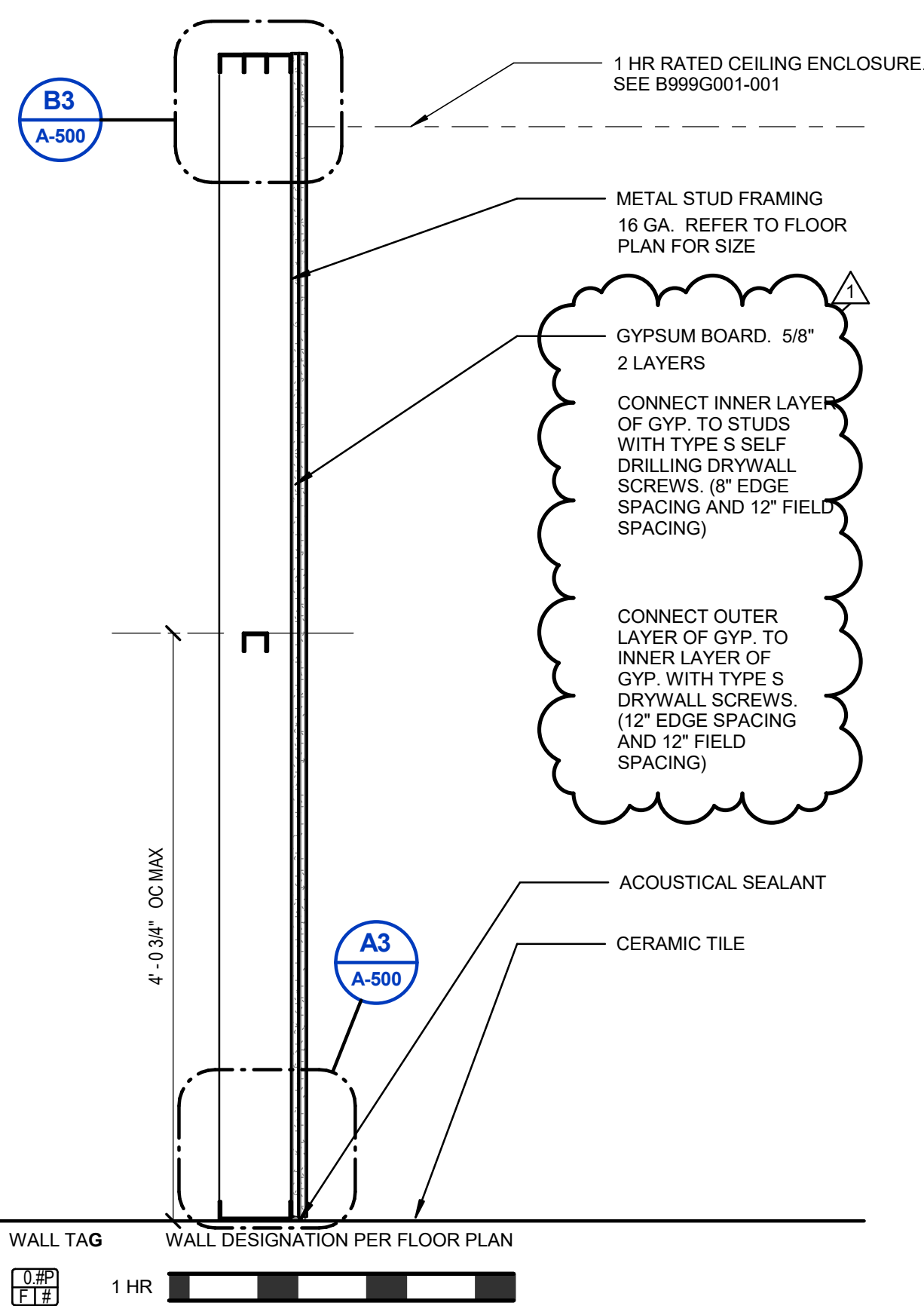
C3 LIGHT GAUGE STRUCTURE CONNECTION TO (E) TUNNEL WALL  
3" = 1'-0"



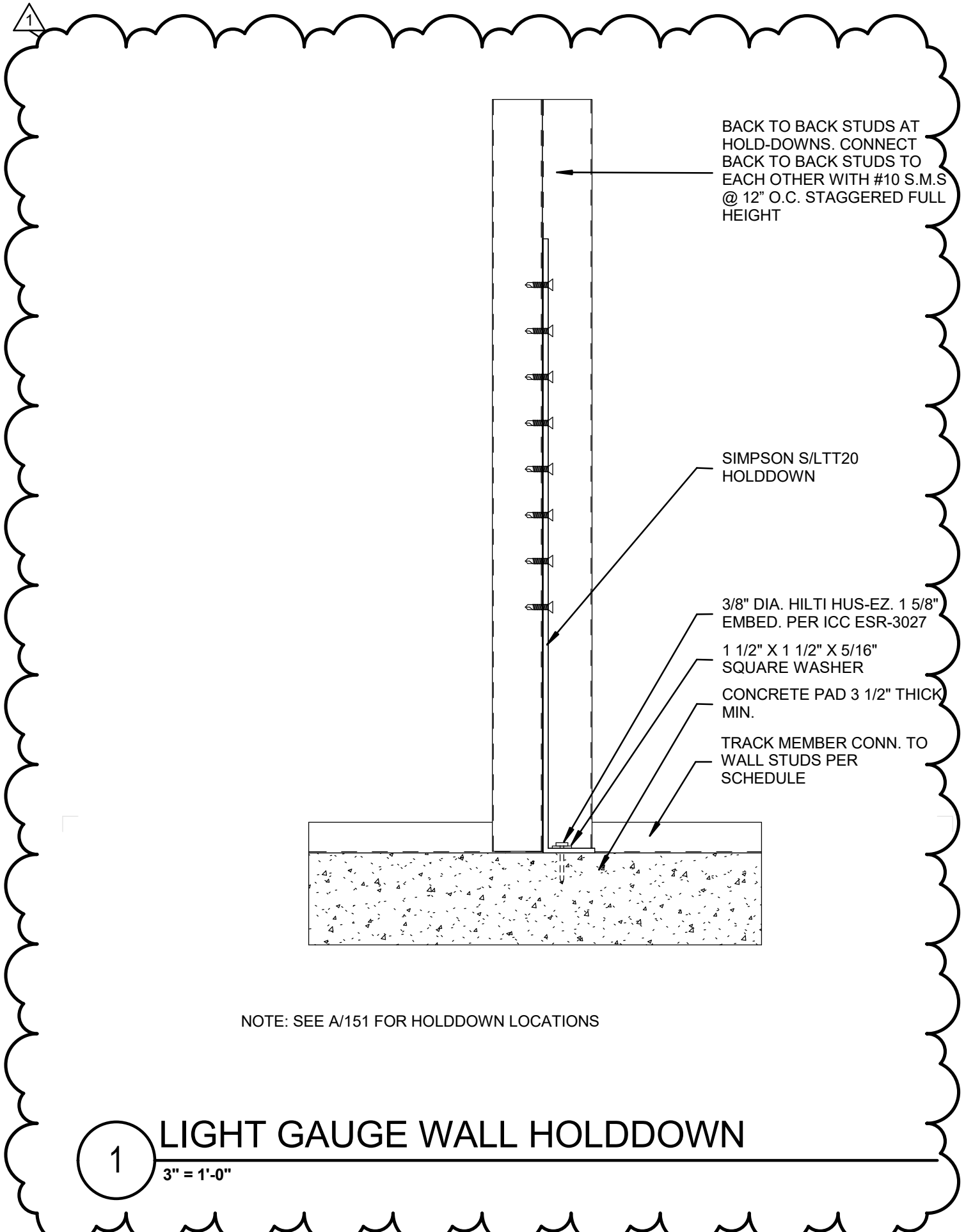
B3 CEILING JOIST TO WALL CONNECTION, TYP  
3" = 1'-0"



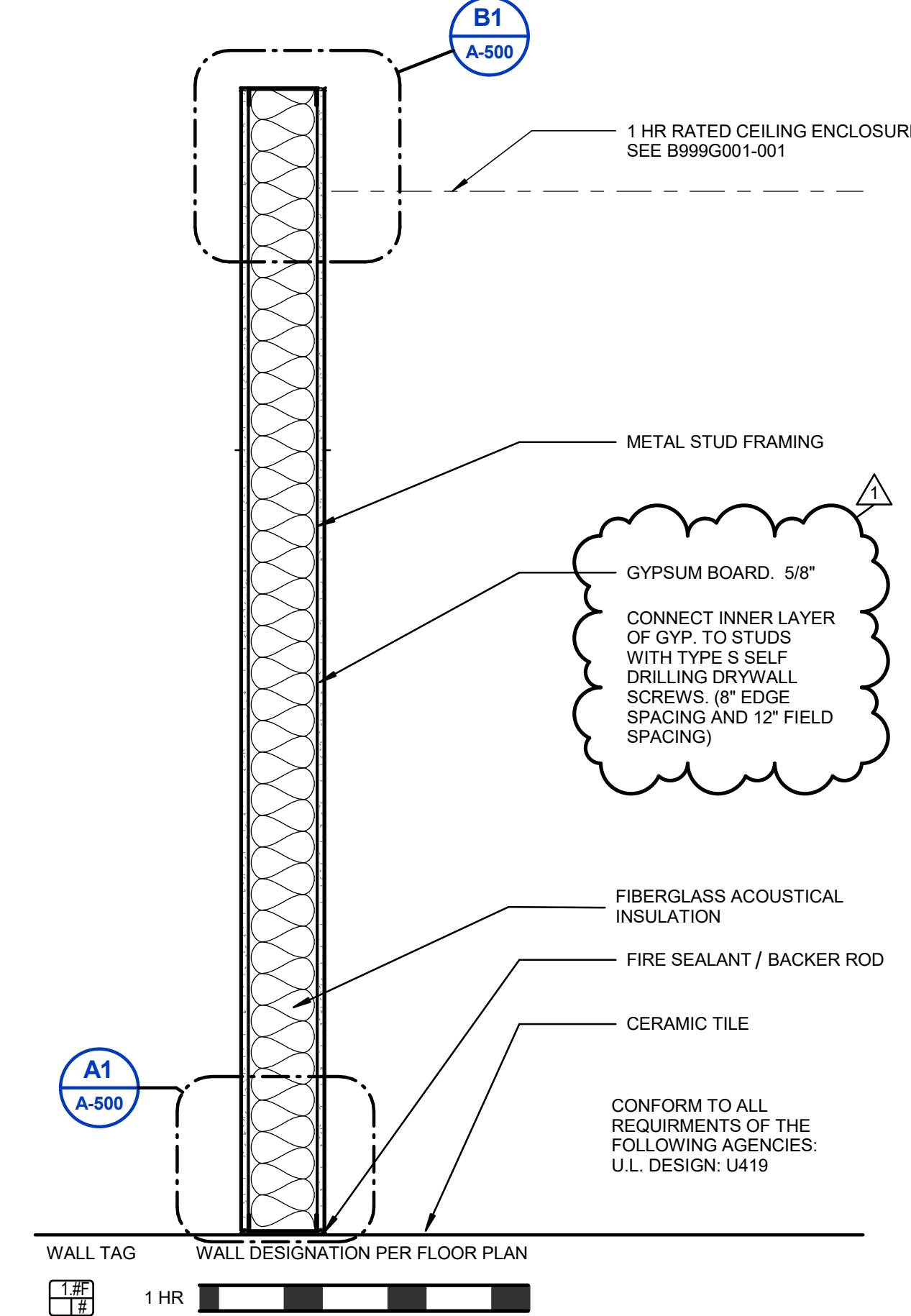
A3 1 HOUR RATED FURRED PARTITION SILL  
3" = 1'-0"



B4 FURRED PARTITION  
1" = 1'-0"



1 LIGHT GAUGE WALL HOLDDOWN  
3" = 1'-0"



B5 1 HOUR RATED FIRE BARRIER  
1" = 1'-0"



Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	01/27/2017

DOOR SCHEDULE																
DOOR								DOOR					FRAME			
DOOR NUMBER	SIZE			TYPE	MATL	FIN	GLZ	DETAIL			VISION PANEL		MATL	FIN	GLZ	FIRE RATING LABEL
	W	HT	THK					HEAD	JAMB	SILL	H	W				
90-1	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	WV-CLR	-	A1/A-600	A1/A-600	A2/A-600			HM	PT	-	20
90A-1	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	WV-CLR	-	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20
80-1	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	WV-CLR	-	A1/A-600	A1/A-600	A2/A-600			HM	PT	-	20
60A-1	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	WV-CLR	-	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20
70-1	5'-0"	7'-0"	0'-1 3/4"	B	SCWD	WV-CLR	20-MIN	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20
60-1	5'-0"	7'-0"	0'-1 3/4"	B	SCWD	WV-CLR	20-MIN	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20
50-1	5'-0"	7'-0"	0'-1 3/4"	B	SCWD	WV-CLR	20-MIN	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20
40-1	5'-0"	7'-0"	0'-1 3/4"	B	SCWD	WV-CLR	20-MIN	A1/A-600	A1/A-600	A3/A-600			HM	PT	-	20

TYPICAL DOOR HARDWARE NOTES & MOUNTING HEIGHTS

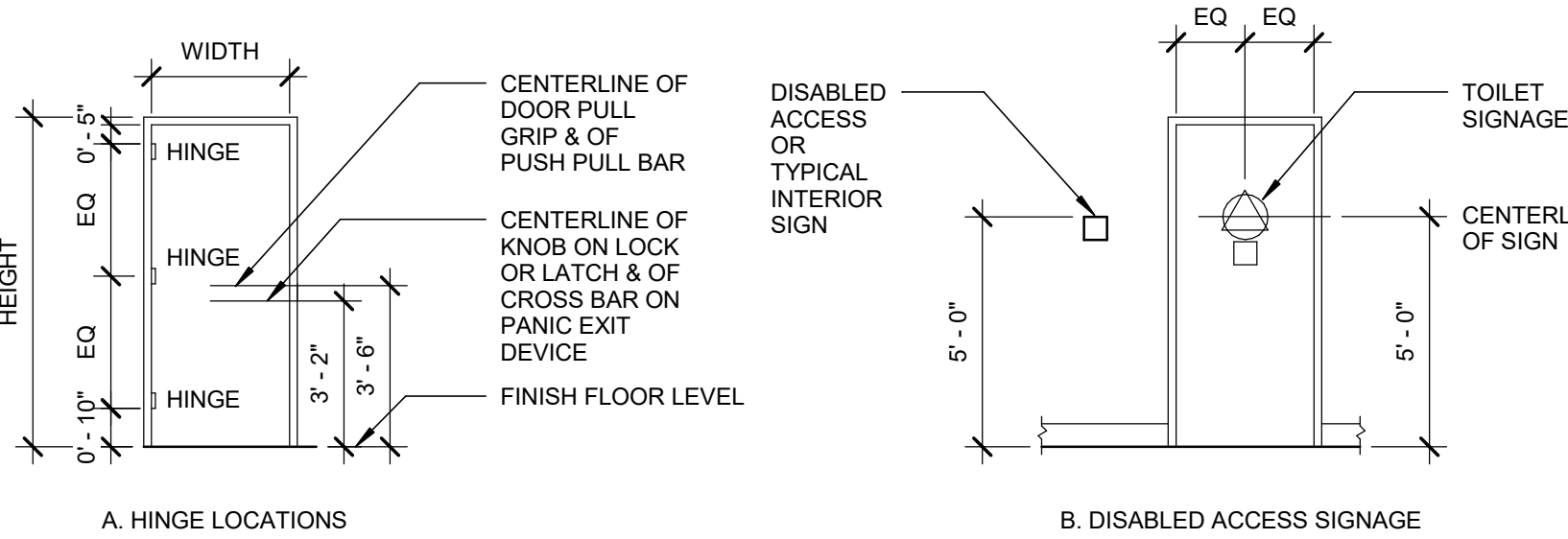
DOOR HARDWARE MOUNTING NOTES

HINGE LOCATIONS: THE THREE HINGES SHOWN ON THE DRAWING ARE FOR DOORS UP TO AND INCLUDING 7'-0" IN HEIGHT. FOR DOORS OF GREATER HEIGHTS AND WIDTHS, FOUR OR MORE HINGES SHALL BE USED AND THE TOP AND BOTTOM HINGES SHALL BE LOCATED AS SHOWN, WITH INTERMEDIATE HINGES BEING EQUALLY SPACED BETWEEN THEM.

LOCATION FOR OTHER HARDWARE ITEMS: KICK PLATES, UNLESS OTHERWISE SPECIFIED, SHALL EXTEND TO WITHIN 1/4" FROM THE BOTTOM OF THE DOOR AND THEIR HORIZONTAL LENGTH SHALL BE AS FOLLOWS: ON SINGLE DOORS, THE NOMINAL DOOR WIDTH LESS 2" ON THE PUSH SIDE AND THE NOMINAL DOOR WIDTH LESS 1" ON THE PULL SIDE; ON DOUBLE DOORS, THE NOMINAL DOOR WIDTH LESS 1" ON EACH SIDE.

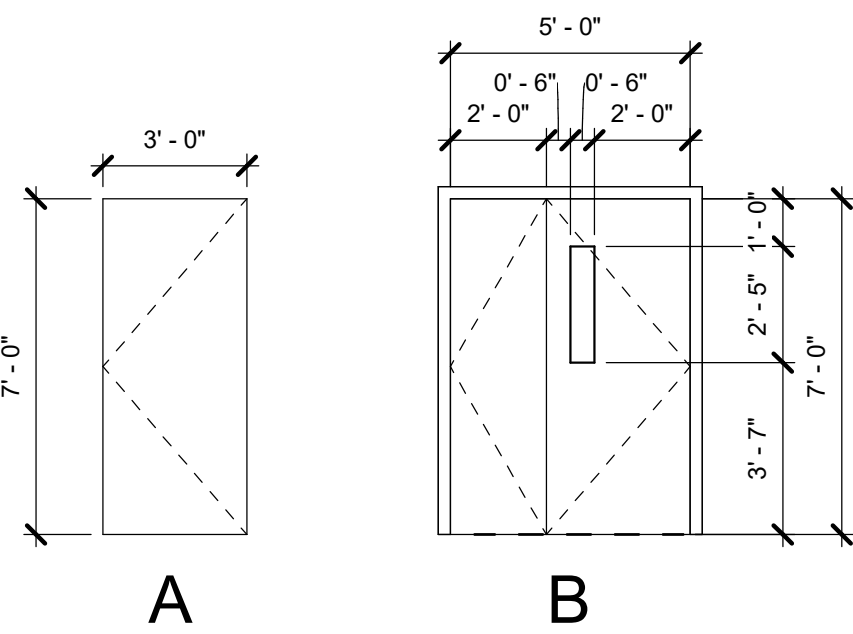
SILENCERS ON SINGLE DOOR FRAMES SHALL BE PLACED OPPOSITE THE HINGES, AND ON DOUBLE DOOR FRAMES, SHALL BE LOCATED 6" EACH OFF THE CENTER OF THE HEAD STOP.

FINISH FLOOR LEVEL: FINISH FLOOR LEVEL IS DEFINED AS THE TOP SURFACE OF THE FINISH FLOORING MATERIAL, EXCEPT WHEN RESILIENT FINISH OR CARPET IS USED, THEN IT IS THE TOP SURFACE OF THE UNDERLYING FINISHED CONCRETE.

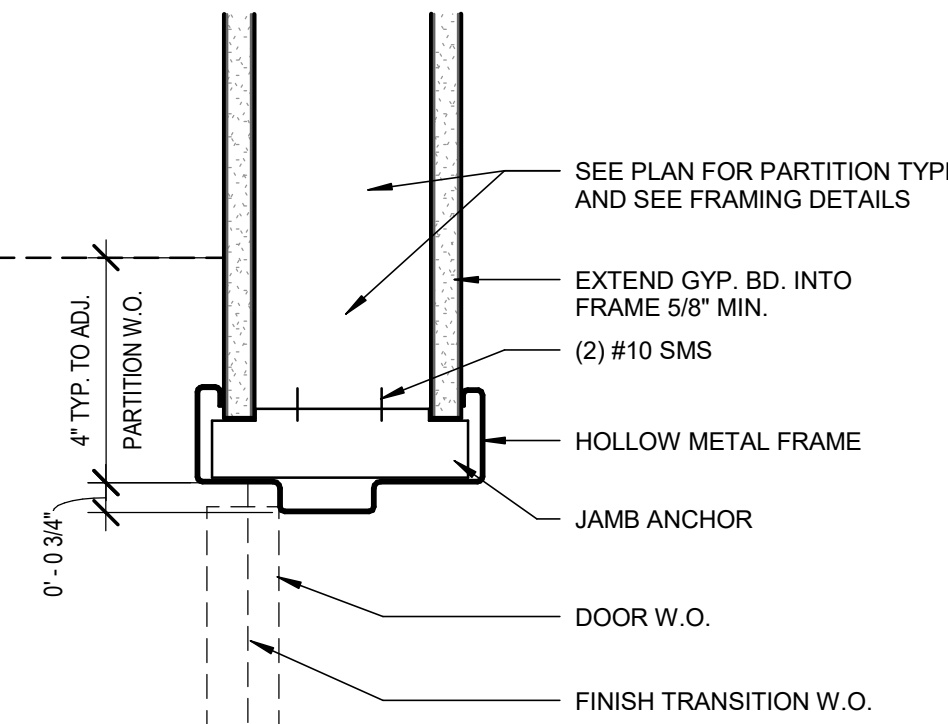


FINISH LEGEND

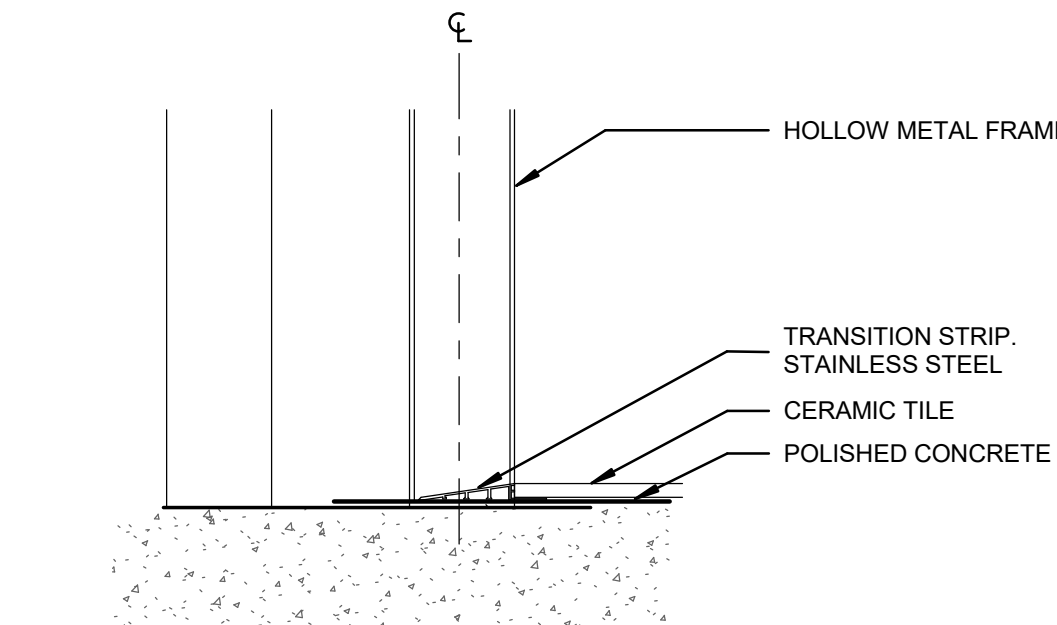
SCWD = SOLID CORE WOOD DOOR  
WV-CLR = WOOD VENEER WITH CLEAR FINISH. SEE FINISH SCHEDULE.  
HM = HOLLOW METAL  
GL = GLAZING. SEE SPECIFICATIONS  
PT = PAINT. SEE FINISH SCHEDULE.



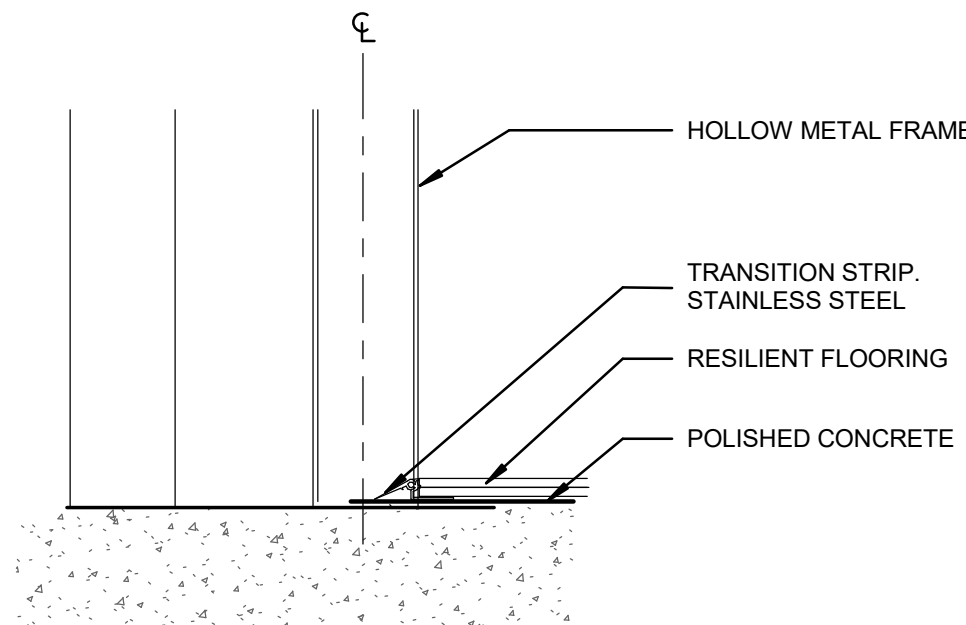
DOOR TYPES



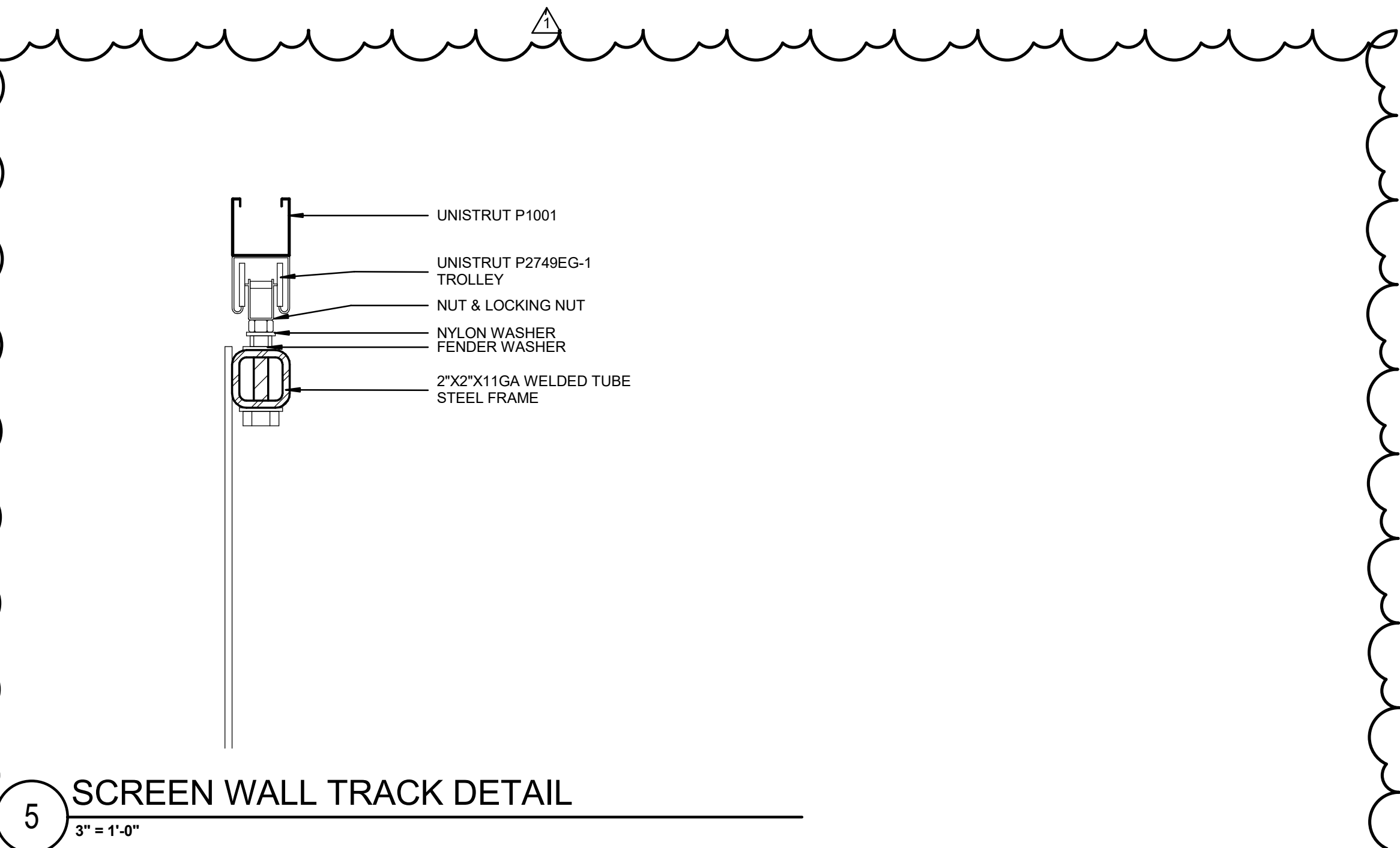
A1 H.M. INTERIOR DOOR JAMB (HEAD SIM)



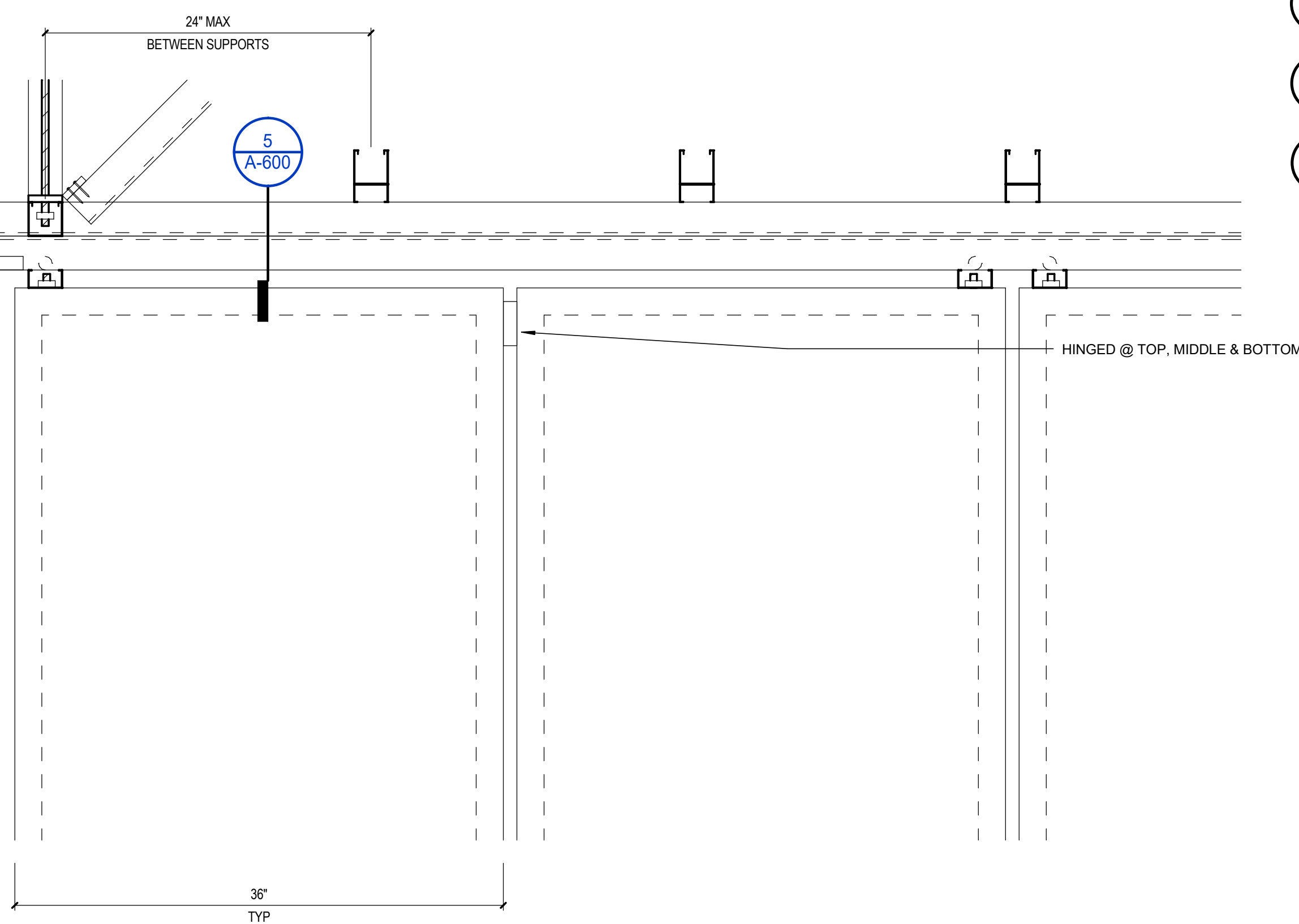
A2 TYP. THRESHOLD - CERAMIC TILE



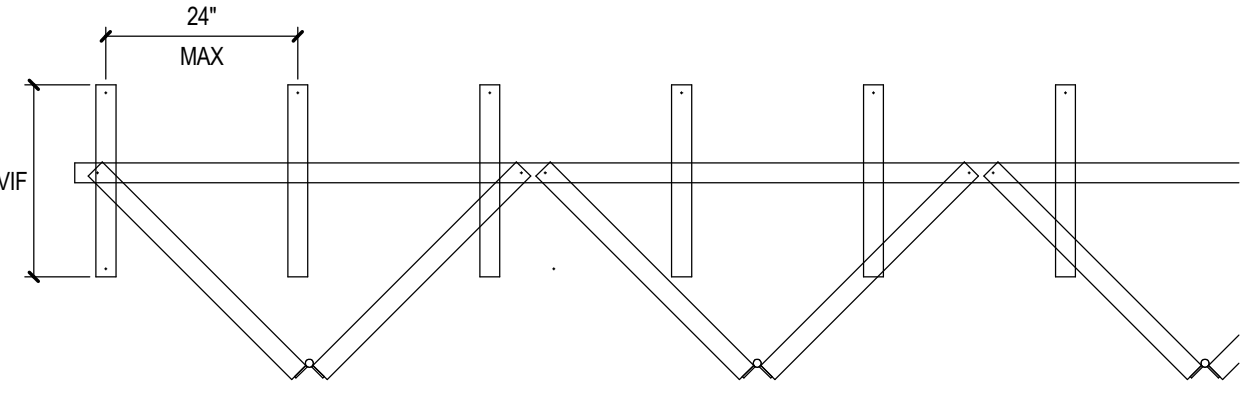
A3 TYP. THRESHOLD - SHEET FLOORING



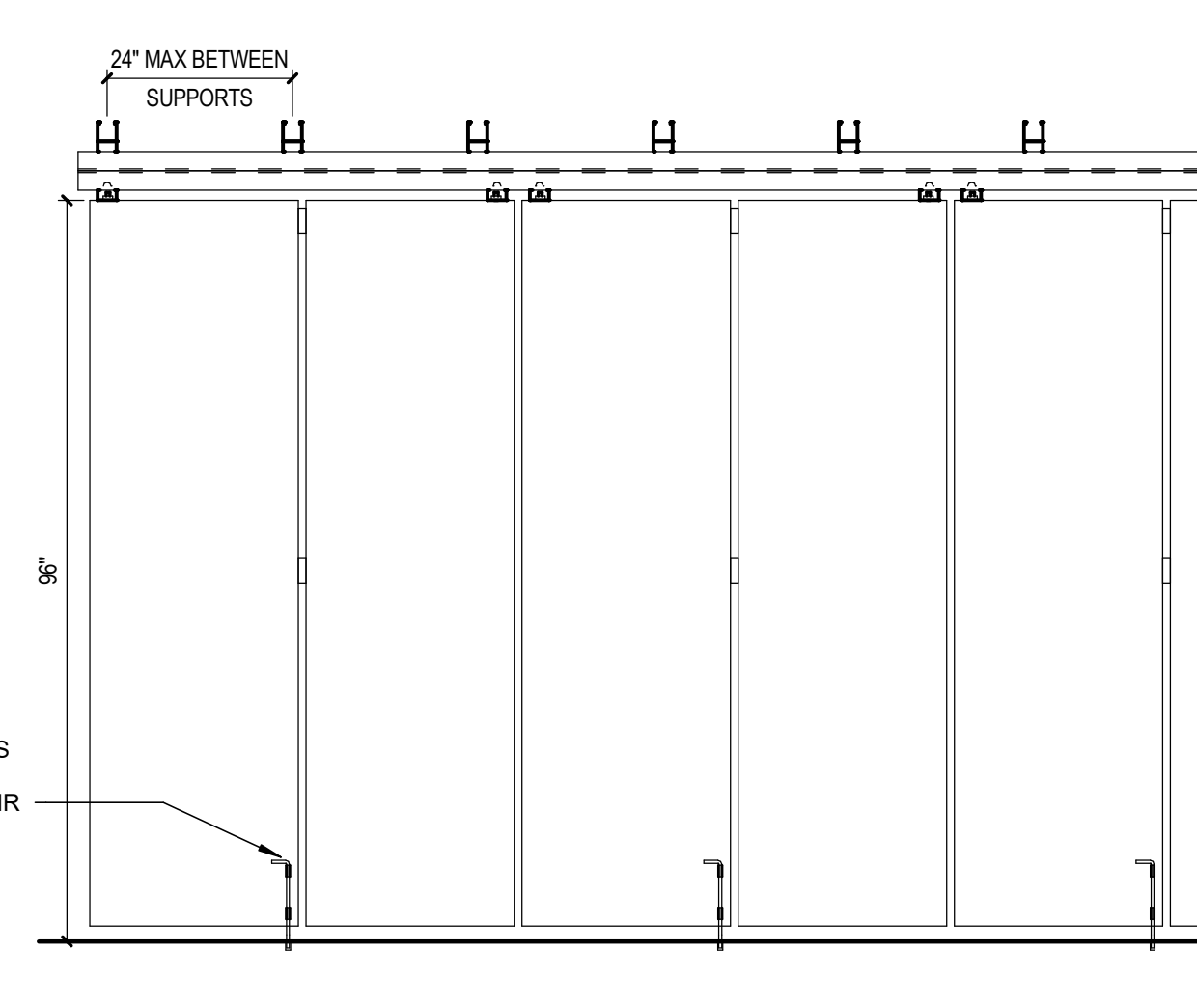
5 SCREEN WALL TRACK DETAIL



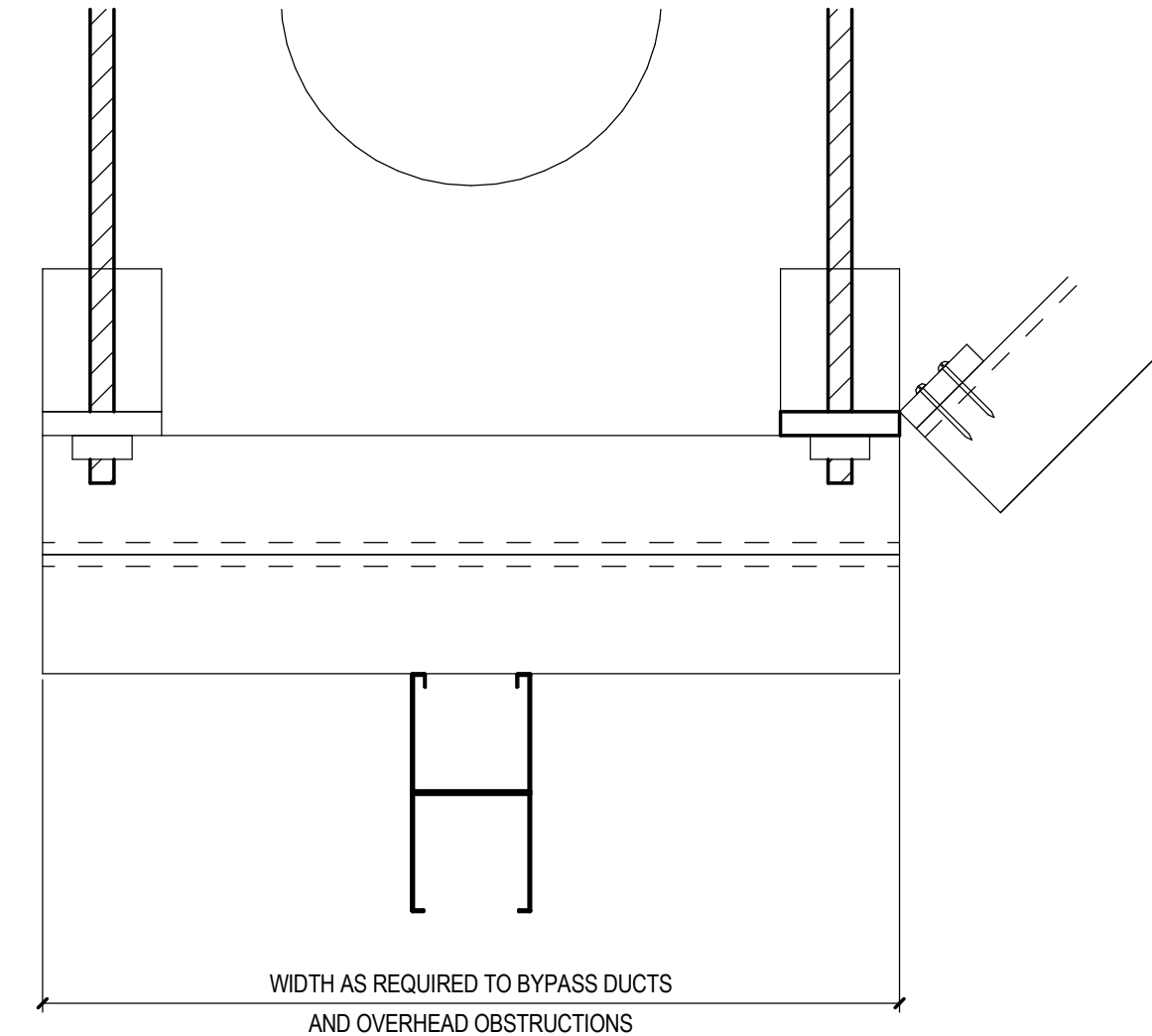
1 ENLARGED PARTIAL ELEVATION



2 SCREEN WALL PLAN VIEW



3 SCREEN WALL ELEVATION



4 SCREEN WALL BARCING DETAIL



STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-01-E  
(Page 3 of 6)

**A. General Information**  
Climate Zone: 3  
Conditioned Floor Area :1191 sq ft  
Unconditioned Floor Area :44 sq ft  
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel  
☒ Schools ☐ Relocatable Public Schools ☒ Conditioned Spaces ☒ Unconditioned Spaces  
Phase of Construction: ☐ New Construction ☒ Addition ☐ Alteration  
Method of Compliance: ☐ Complete Building ☐ Area Category ☒ Tailored  
Project Address: 2575 Sand Hill Rd B999, Menlo Park, CA 94025

**B. Lighting Compliance Documents (select yes for each document included)**  
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
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Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
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CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-01-E  
(Page 2 of 6)

**C. Summary of Allowed Lighting Power**  
Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
1.	2.	Watts	3.	4.	Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4 PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3 Minus Lighting Control Credits NRCC-LTI-02-E, page 2	+ 1259	5.	Installed Lighting NRCC-LTI-01-E, page 4	29
2.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 1259	6.	Adjusted Installed Lighting Power (row 1 minus row 3)	29
Complies ONLY if Installed < Allowed			Complies ONLY if Installed < Allowed		
Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1		1301.4	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1		35.4

**D. Declaration of Required Installation Certificates**  
Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-01-E  
(Page 3 of 6)

**E. Declaration of Required Certificates of Acceptance**  
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

**F. Indoor Lighting Schedule and Field Inspection Energy Checklist**  
☒ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.  
☒ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.  
☒ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines  
☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

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**G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)**  
- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.  
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office  
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule							Office Location		Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G3 x G3)	Sum of wattage of all office luminaires (G4 + G5)	Watts per square foot (G6 / G5)	If G6 ≤ 0.3, enter zero; if G6 > 0.3, (G6-0.3)	G5 x G7	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

**C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**

Luminaire Schedule		Installed Watts				Location	Field Inspector <sup>1</sup>	
1	2	3	4	5	6	7	8	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)	Watts per Luminaire	CCC Coefficient from IAHM (0.6-0.9)	Number of Luminaires	Total installed Watts in this area (G3 x G5)	Primary Function area in which these luminaires are installed	Pass	Fail
F1	Wall Mount LED 2' vanity	18	<input checked="" type="checkbox"/>	4	72	Corridor/Restroom/Support	<input type="checkbox"/>	<input type="checkbox"/>
F3	Direct/Indirect Pendant Mount LED 2'x4'	36	<input checked="" type="checkbox"/>	22	792	Laboratory, Scientific	<input type="checkbox"/>	<input type="checkbox"/>
F3A	Direct Surface Mount LED 2'x4'	20	<input checked="" type="checkbox"/>	10	200	Corridor/Restroom/Support	<input type="checkbox"/>	<input type="checkbox"/>
F4	31" LED Undercabinet	18	<input checked="" type="checkbox"/>	9	162	Laboratory Bench	<input type="checkbox"/>	<input type="checkbox"/>
F2E	6" Downlight recessed	11	<input checked="" type="checkbox"/>	3	33	Laboratory Entryway	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:					1259	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
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CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-01-E  
(Page 3 of 6)

**E. Declaration of Required Certificates of Acceptance**  
Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/> Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
☐ CONDITIONED SPACE ☒ UNCONDITIONED SPACE

**F. Indoor Lighting Schedule and Field Inspection Energy Checklist**  
☒ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.  
☒ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.  
☒ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines  
☒ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

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**G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)**  
- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.  
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office  
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Installed Portable Luminaire W/ft <sup>2</sup>							Office Location		Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Sum of wattage of all office luminaires (G04 + G05)	Watts per square foot (G06 / G05)	If G06 ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
Total installed portable luminaire watts that are greater than 0.3 W/ft <sup>2</sup> per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
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(SEE NRCC-LTI-01-E, Revised 08/15)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting  
Project Name: SLAC B999 FEH/TUNNEL FACILITIES  
Date Prepared: 10/31/2016

CALIFORNIA ENERGY COMMISSION  
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(Page 5 of 6)

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
☐ CONDITIONED SPACE ☒ UNCONDITIONED SPACE

**C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**

Luminaire Schedule		Installed Watts				Location	Field Inspector <sup>1</sup>	
1	2	3	4	5	6	7	8	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)	Watts per Luminaire	CCC Coefficient from IAHM (0.6-0.9)	Number of Luminaires	Total installed Watts in this area (G3 x G5)	Primary Function area in which these luminaires are installed	Pass	Fail
F2	Recessed LED 6"	11	<input checked="" type="checkbox"/>	1	11	Other Areas: Janitorial Closet	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>		0		<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:					29	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA  
INDOOR LIGHTING  
(SEE NRCC-LTI-01-E, Revised 08/15)

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CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-01-E  
(Page 6 of 6)

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
I, \_\_\_\_\_, certify that this Certificate of Compliance documentation is accurate and complete.  
Documentation Author Name: David E. Marshall  
Company: KJWW  
Address: 1100 Warrenville Road, Suite 400W  
Naperville, Illinois 60563  
City/State/Zip: Naperville, Illinois 60563  
Phone: (630) 753-8568  
Signature Date: 10/31/2016  
SEA Certification Identification (if applicable):  
Responsible Person's Declaration Statement  
I certify the following under penalty of perjury, under the laws of the State of California:  
1. The information provided on this Certificate of Compliance is true and correct.  
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  
Responsible Designer Name: David E. Marshall  
Company: KJWW  
Address: 1100 Warrenville Road, Suite 400W  
Naperville, Illinois 60563  
City/State/Zip: Naperville, Illinois 60563  
Phone: (630) 753-8568  
Signature Date: 10/31/2016  
License: E12921  
Responsible Designer Signature: David E. Marshall

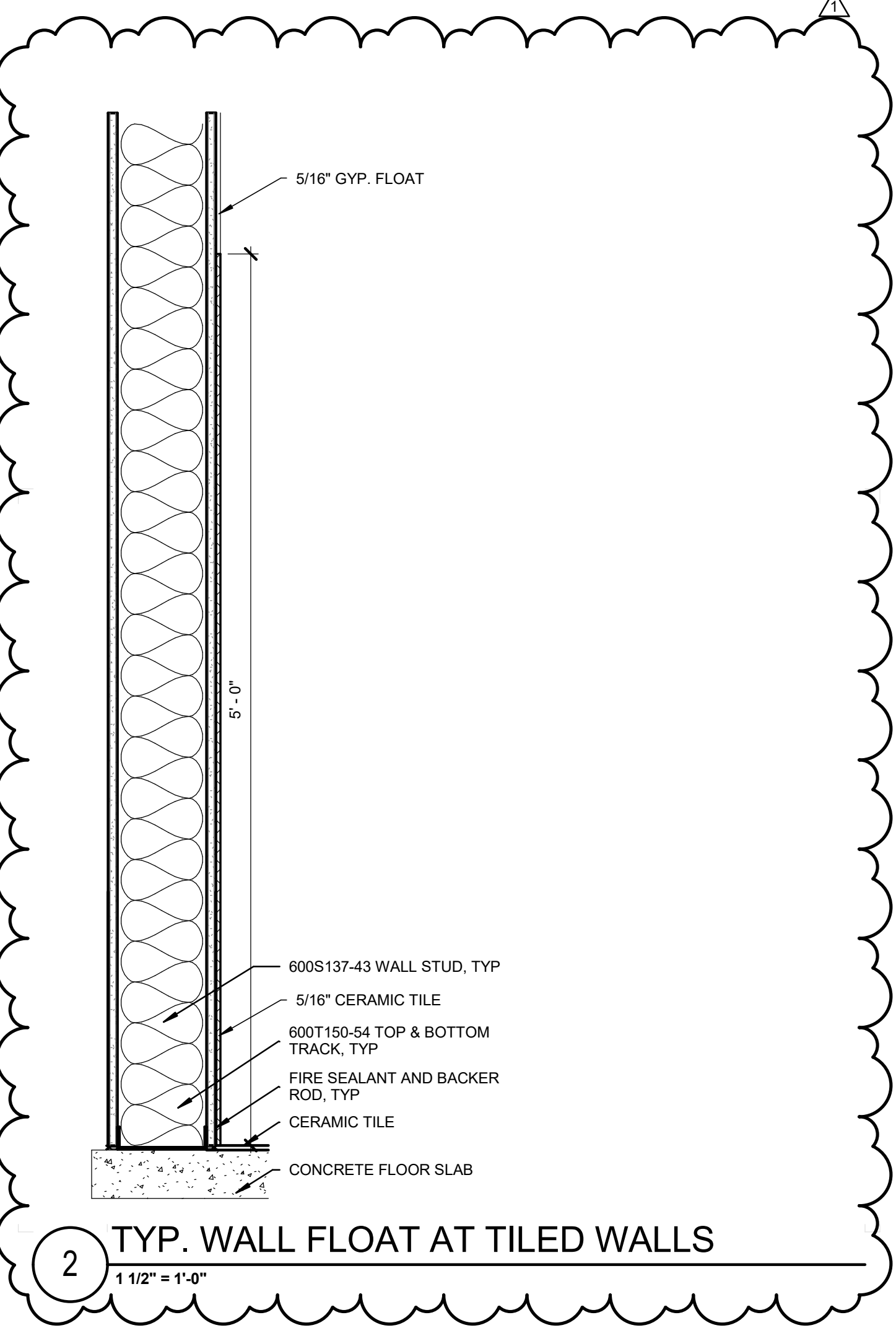
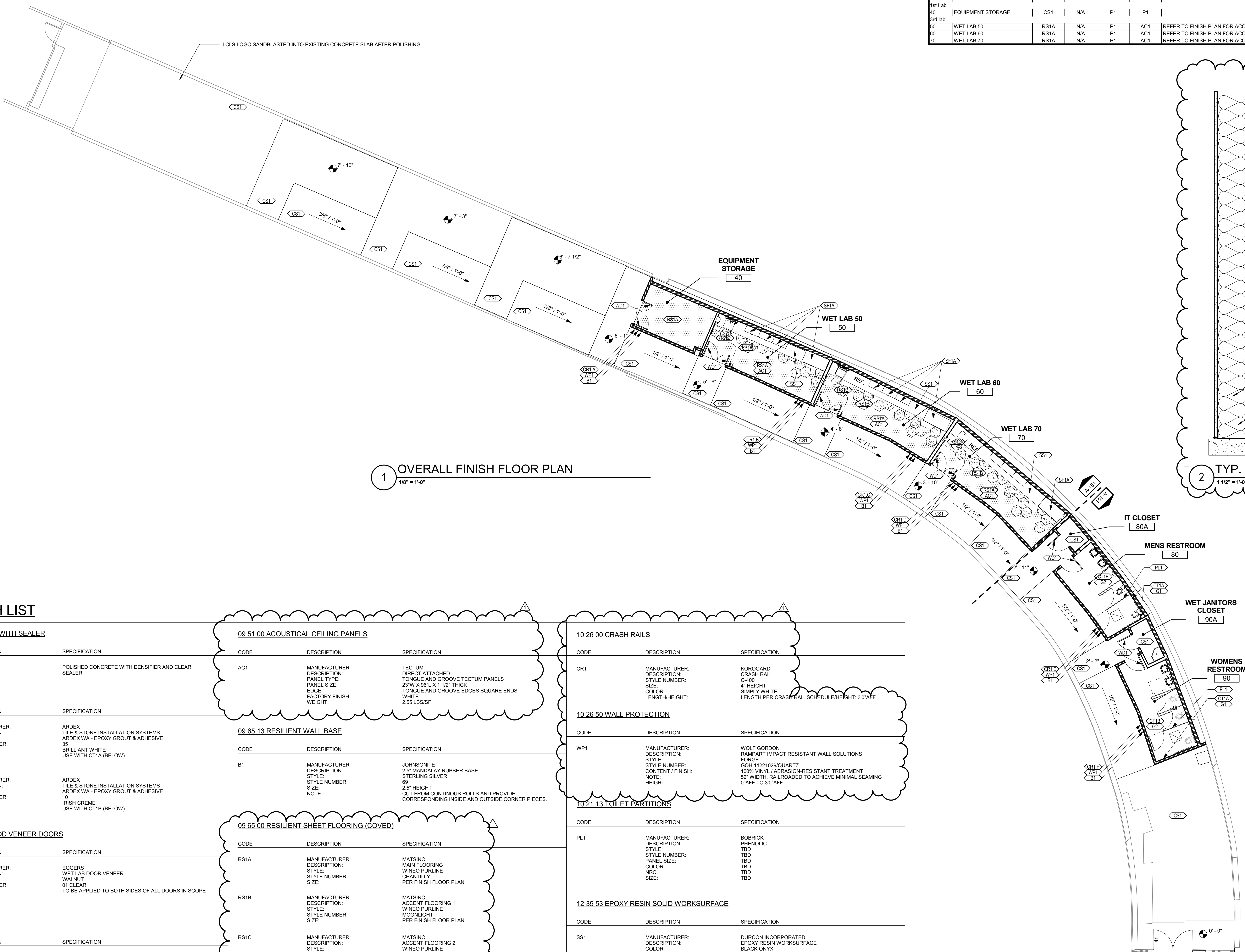






ROOM FINISH SCHEDULE					
ROOM NO.	NAME	FINISH			COMMENTS
		FLOOR	BASE	WALL	
LEVEL 2 - LOWER RESTROOM					
80	MENS RESTROOM	CT1B	N/A	CT1A	P1
80A	IT CLOSET	CS1	N/A	P1	P1
90	WOMENS RESTROOM	CT1B	N/A	CT1A	P1
90A	WET JANITORS CLOSET	CS1	N/A	P1	P1
1st Lab					
40	EQUIPMENT STORAGE	CS1	N/A	P1	P1
3rd lab					
50	WET LAB 50	RS1A	N/A	P1	AC1
60	WET LAB 60	RS1A	N/A	P1	AC1
70	WET LAB 70	RS1A	N/A	P1	AC1
REFER TO FINISH PLAN FOR ACCENT FLOOR					
REFER TO FINISH PLAN FOR ACCENT FLOOR					
REFER TO FINISH PLAN FOR ACCENT FLOOR					

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	ADDENDUM 1	01/27/2017



INTERIOR FINISH LIST

03 35 43 POLISHED CONCRETE WITH SEALER		
CODE	DESCRIPTION	SPECIFICATION
CS1	NOTE:	POLISHED CONCRETE WITH DENSIFIER AND CLEAR SEALER
03 60 00 GROUT		
CODE	DESCRIPTION	SPECIFICATION
G1	MANUFACTURER: ARDEX DESCRIPTION: TILE & STONE INSTALLATION SYSTEMS STYLE: ARDEX WA - EPOXY GROUT & ADHESIVE STYLE NUMBER: 95 COLOR: BRILLIANT WHITE NOTE: USE WITH CT1A (BELOW)	
G2	MANUFACTURER: ARDEX DESCRIPTION: TILE & STONE INSTALLATION SYSTEMS STYLE: ARDEX WA - EPOXY GROUT & ADHESIVE STYLE NUMBER: 10 COLOR: IRISH CREME NOTE: USE WITH CT1B (BELOW)	
06 40 00 INTERIOR FLUSH WOOD VENEER DOORS		
CODE	DESCRIPTION	SPECIFICATION
WD1	MANUFACTURER: EGGER DESCRIPTION: WET LAB DOOR VENEER STYLE: WALNUT STYLE NUMBER: 01 NOTE: TO BE APPLIED TO BOTH SIDES OF ALL DOORS IN SCOPE	
09 31 00 CERAMIC TILE		
CODE	DESCRIPTION	SPECIFICATION
CT1A	MANUFACTURER: DALTILE DESCRIPTION: WALL TILE STYLE: MULTITUDE - ORIGAMI WHITE HEXAGON STYLE NUMBER: MU10 SIZE / THICKNESS: 12\"/>	
CT1B	MANUFACTURER: DALTILE DESCRIPTION: FLOOR TILE STYLE: CONSULATE STYLE NUMBER: CS05 SIZE / THICKNESS: 6\"/>	

09 51 00 ACOUSTICAL CEILING PANELS		
CODE	DESCRIPTION	SPECIFICATION
AC1	MANUFACTURER: TECTUM DESCRIPTION: DIRECT ATTACHED TONGUE AND GROOVE TECTUM PANELS PANEL TYPE: 23\"/>	
09 65 13 RESILIENT WALL BASE		
CODE	DESCRIPTION	SPECIFICATION
B1	MANUFACTURER: JOHNSONITE DESCRIPTION: 2\"/>	
09 65 00 RESILIENT SHEET FLOORING (COVERED)		
CODE	DESCRIPTION	SPECIFICATION
RS1A	MANUFACTURER: MATSING DESCRIPTION: MAIN FLOORING STYLE: WINEO PURLINE STYLE NUMBER: CHANTILLY SIZE: PER FINISH FLOOR PLAN	
RS1B	MANUFACTURER: MATSING DESCRIPTION: ACCENT FLOORING 1 STYLE: WINEO PURLINE STYLE NUMBER: MOONLIGHT SIZE: PER FINISH FLOOR PLAN	
RS1C	MANUFACTURER: MATSING DESCRIPTION: ACCENT FLOORING 2 STYLE: WINEO PURLINE STYLE NUMBER: TITANIUM SIZE: PER FINISH FLOOR PLAN	
09 90 00 PAINTING		
CODE	DESCRIPTION	SPECIFICATION
P1	FIELD PAINT MANUFACTURER: BENJAMIN MOORE STYLE: OFF WHITE COLOR: SWISS COFFEE COLOR NUMBER: OC-45 FINISH: EGGSHELL NOTES: DOOR FRAMES TO MATCH ADJACENT PAINT COLOR IN SEMI-GLOSS FINISH.	

10 26 00 CRASH RAILS		
CODE	DESCRIPTION	SPECIFICATION
CR1	MANUFACTURER: KOROGARD DESCRIPTION: DIRECT CRASH RAIL STYLE NUMBER: C-400 SIZE: 4\"/>	
10 26 50 WALL PROTECTION		
CODE	DESCRIPTION	SPECIFICATION
WP1	MANUFACTURER: WOLF GORDON DESCRIPTION: RAMPAINT IMPACT RESISTANT WALL SOLUTIONS STYLE: FORGE STYLE NUMBER: 11221029QUARTZ CONTENT / FINISH: 100% VINYL / ABRASION-RESISTANT TREATMENT NOTE: 52\"/>	
10 21 13 TOILET PARTITIONS		
CODE	DESCRIPTION	SPECIFICATION
PL1	MANUFACTURER: BOBRICK DESCRIPTION: PHENOLIC STYLE: TBD STYLE NUMBER: TBD PANEL SIZE: TBD COLOR: TBD NRG: TBD SIZE: TBD	
12 35 53 EPOXY RESIN SOLID WORKSURFACE		
CODE	DESCRIPTION	SPECIFICATION
SS1	MANUFACTURER: DURCON INCORPORATED DESCRIPTION: EPOXY RESIN WORKSURFACE COLOR: BLACK ONYX	
?? ?? ?? STEEL LAB CASEWORK SPECIALTY FINISH		
CODE	DESCRIPTION	SPECIFICATION
SF1A	MANUFACTURER: KEVALUNEE DESCRIPTION: RESEARCH COLLECTION - STEEL FINISH FOR UPPERS COLOR: LIGHT NEUTRAL COLOR NUMBER: NO. 61	
SF1B	MANUFACTURER: KEVALUNEE DESCRIPTION: RESEARCH COLLECTION - STEEL FINISH FOR UPPERS COLOR: WINEBERRY COLOR NUMBER: NO. 96	

FINISH LEGEND  
1/4\"/>

KJ

WW

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925-396-7799 (FAX)

TAYLOR

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SAN FRANCISCO, CA 94108  
www.WeAreTaylor.com  
415.992.4455

REGISTERED ARCHITECT  
JENNIFER L WILLIAMS  
NO. 12-31-17  
STATE OF CALIFORNIA

SCALE: As indicated | DO NOT SCALE DRAWING | B999A001-0073.dwg | ID610 | 1 of 1

SLAC

U.S. DEPARTMENT OF ENERGY

NATIONAL ACCELERATOR LABORATORY

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ENGR  
DES Designer  
CHKR Checker

DATE  
01/27/2017  
01/27/2017

APPROVALS  
01/06/2017

DRAWING NUMBER  
B999A001-0073

REVISION  
A0

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